

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 30, 2004, 14:10:23 ; Search time 54 Seconds

(without alignments)
6502.222 Million cell updates/sec

Title: US-09-903-063-5

Perfect score: 1242
Sequence: 1 MASPPSDGFSVDRKVGYLK.....SEDLASVASFQKPEDRQ 1242Scoring table: GAIPO
Gapop 60.0 , Gapext 60.0

Searched: 1166195 seqs, 282705291 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1166195

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications AA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
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2	1242	100.0	1242 9 US-09-859-604-5	Sequence 5, Appl1
3	1242	100.0	1242 9 US-09-903-063-5	Sequence 5, Appl1
4	1242	100.0	1242 9 US-09-903-216-5	Sequence 5, Appl1
5	1242	100.0	1242 9 US-09-903-199-5	Sequence 5, Appl1
6	1242	100.0	1242 9 US-09-903-123-5	Sequence 5, Appl1
7	1242	100.0	1242 10 US-09-436-184-5	Sequence 5, Appl1
8	1242	100.0	1242 13 US-10-085-027-1	Sequence 1, Appl1
9	1242	100.0	1242 16 US-10-694-874-1	Sequence 1, Appl1
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11	119	9.6	1231 16 US-10-694-874-3	Sequence 1, Appl1
12	111	8.9	113 10 US-09-922-226-123	Sequence 123, Appl1
13	111	8.9	114 12 US-09-731-660A-2	Sequence 2, Appl1
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ALIGNMENTS

RESULT 1	US-09-903-248-5	Application US/09903248
Sequence 5, Appl1	US20020102263A1	
Patent No. US20020102263A1		
GENERAL INFORMATION:		
APPLICANT: Wanda, Jack R.		
APPLICANT: de la Monte, Suzanne M.		
APPLICANT: Ince, Nedim		
APPLICANT: Carlson, Rolf I.		
TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS		
FILE REFERENCE: 21486-032 DIVS		
CURRENT APPLICATION NUMBER: US/09/903,248		
PRIOR FILING DATE: 2001-07-11		
PRIOR FILING DATE: 1999-11-08		
NUMBER OF SEQ ID NOS: 9		
SOFTWARE: Patentin Ver. 2.1		
SEQ ID NO 5		
LENGTH: 1242		
TYPE: PRT		
ORGANISM: Homo sapiens		
US-09-903-248-5		
Query Match	100.0%	Score 1242; DB 9; Length 1242;
Best Local Similarity	100.0%	Pred. No. 0;
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RESULT 2
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; Sequence 5; Application US/09859604
; Patent No. US20020110559A1
; GENERAL INFORMATION:
; APPLICANT: Mandel, Jack R.
; APPLICANT: de la Monte, Suzanne M
; APPLICANT: Deutch, Alan H
; APPLICANT: Chaudhri, Hossein A
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
; FILE REFERENCE: 21486-032 CIP
; CURRENT APPLICATION NUMBER: US/09/859,604
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: 09/436,184
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1242
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-859-604-5
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Best Local Similarity 100.0%; Pred. No. 0;
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; Sequence 5, Application US/09903063
; Patent No. US20020114810A1
; GENERAL INFORMATION:
; APPLICANT: Wands, Jack R.
; APPLICANT: de la Monte, Suzanne M.
; APPLICANT: Ince, Nedim
; APPLICANT: Carlson, Rolf I.
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
; FILE REFERENCE: 21486-032 DIV3
; CURRENT APPLICATION NUMBER: US/09/903,063
; PRIOR FILING DATE: 2001-10-11
; PRIOR APPLICATION NUMBER: 09/436,184
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentia Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1242
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-903-063-5

Query Match 100.0%; Score 1242; DB 9; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 4
US-09-903-216-5
; Sequence 5, Application US/09903216
; Patent No. US2002011481A1
; GENERAL INFORMATION:
; APPLICANT: Wands, Jack R.
; APPLICANT: de la Monte, Suzanne M.
; APPLICANT: Ince, Nedim
; APPLICANT: Carlson, Rolf I.
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
; FILE REFERENCE: 21486-032 DIV2
; CURRENT APPLICATION NUMBER: US/09/903,216
; PRIOR FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/436,184
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO: 5
; LENGTH: 1242
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-903-216-5

Query Match 100.0%; Score 1242; DB 9; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASPPESDGFSDVRKVGYLRRKPKSNHKKRFFVLRASAEAGPARLEYENKMKWRRKKSAP 60
Db 1 MASPPESDGFSDVRKVGYLRRKPKSNHKKRFFVLRASAEAGPARLEYENKMKWRRKKSAP 60
QY 61 KRSTLESCFNINRKADSKNHLVALYTRDEHPALAADESEODSWOALQLENRKGH 120
Db 61 KRSTLESCFNINRKADSKNHLVALYTRDEHPALAADESEODSWOALQLENRKGH 120
QY 121 HDGAALAGAGGGGSGSSGSLGEAGEDLSYGDVPPGPAFKWQVILKPKGLQTKLI 180
Db 121 HDGAALAGAGGGGSGSSGSLGEAGEDLSYGDVPPGPAFKWQVILKPKGLQTKLI 180
QY 181 GYTRCLTSKTSISFYKLNSEAAVVLQIMNTRCGHSENFPIEYGRSAVTGPGEFMMQV 240
Db 181 GYTRCLTSKTSISFYKLNSEAAVVLQIMNTRCGHSENFPIEYGRSAVTGPGEFMMQV 240
QY 241 DDSVVAQNHHETILAMRAMSDEPRRKSOGSSNSCNPISEVPLRHHLLNPPPSQVGLT 300
Db 241 DDSVVAQNHHETILAMRAMSDEPRRKSOGSSNSCNPISEVPLRHHLLNPPPSQVGLT 300
QY 301 RRSRTESITATSPAMVGGKPGSFVRASDDEGTMSRPASVDGSPVSPNNRTHAHR 360
Db 301 RRSRTESITATSPAMVGGKPGSFVRASDDEGTMSRPASVDGSPVSPNNRTHAHR 360
QY 361 GSARLHPPLNHSRSLPMPARCSPPATSPVLSASSSTGSGHSTGSCLEPPRRSSASVSGSP 420
Db 361 GSARLHPPLNHSRSLPMPARCSPPATSPVLSASSSTGSGHSTGSCLEPPRRSSASVSGSP 420
QY 421 SSGGFTSSDEYSSSPCDFRSFRSVTPDSLGHTPPARGEBELSNITCMGKGPSLTLPN 480
Db 421 SSGGFTSSDEYSSSPCDFRSFRSVTPDSLGHTPPARGEBELSNITCMGKGPSLTLPN 480
QY 481 GYIISRGNGHRCCTPGTGLTSPALAGDEAASADLNNRFRKTHSAGTSPITTHQTP 540
Db 481 GYIISRGNGHRCCTPGTGLTSPALAGDEAASADLNNRFRKTHSAGTSPITTHQTP 540
QY 541 SSSVASIETETEMPAVPYGGSGGRLPGHRHSAFVPTSTYEEGLEMLERGGHNR 600
Db 541 SSSVASIETETEMPAVPYGGSGGRLPGHRHSAFVPTSTYEEGLEMLERGGHNR 600

QY 601 PDSSTLHTDDGYMPPSPGVAPVPSGRKSGCDYMPSPKSVAPQOIIINPIRRHQRVDPN 660
Db 601 PDSSTLHTDDGYMPPSPGVAPVPSGRKSGCDYMPSPKSVAPQOIIINPIRRHQRVDPN 660
QY 661 GYMMMSPSGGCSFDIGGPPSSSSSSSNAVPSTGYTKLMTNGVGHSHVLPHPKPVES 720
Db 661 GYMMMSPSGGCSFDIGGPPSSSSSSSNAVPSTGYTKLMTNGVGHSHVLPHPKPVES 720
QY 721 SGKLLPCTGDYMMSPVSDSWTSSPSCYYPEDPOKHPVLSYSLPRSFHTQRPGE 780
Db 721 SGKLLPCTGDYMMSPVSDSWTSSPSCYYPEDPOKHPVLSYSLPRSFHTQRPGE 780
QY 781 EGGARHQLRLSTSSGRLLYAATADSSSTSDSLGGGCGARLEPLPHPHQVLOPH 840
Db 781 EGGARHQLRLSTSSGRLLYAATADSSSTSDSLGGGCGARLEPLPHPHQVLOPH 840
QY 841 LPRKVDTAQNTSRLAPTRLSLGPKASTLPRAREQQOQOPLHPPEPKSPGEYVNI 900
Db 841 LPRKVDTAQNTSRLAPTRLSLGPKASTLPRAREQQOQOPLHPPEPKSPGEYVNI 900
QY 901 FGSDGGLSGEVAFFHSPSVRCPQLOPAPREEBTGTEBYMKDLGFRRAAQESTGV 960
Db 901 FGSDGGLSGEVAFFHSPSVRCPQLOPAPREEBTGTEBYMKDLGFRRAAQESTGV 960
QY 961 EMGRLAGPAPGAASICTPTRAVPSSRGDVTMTQMSCPROSYVDTPPAVPVYADMRTGIA 1020
Db 961 EMGRLAGPAPGAASICTPTRAVPSSRGDVTMTQMSCPROSYVDTPPAVPVYADMRTGIA 1020
QY 1021 AEEVSLPRATMAAASSSSAASAPTPGQGAELAAHSSILGGPQPGMSAFTRVNLSPN 1080
Db 1021 AEEVSLPRATMAAASSSSAASAPTPGQGAELAAHSSILGGPQPGMSAFTRVNLSPN 1080
QY 1081 RNOSAVYIADPQGCRRHSSSTFSTPBATVGVTPPGAANAAGCGGSSSEEDVR 1140
Db 1081 RNOSAVYIADPQGCRRHSSSTFSTPBATVGVTPPGAANAAGCGGSSSEEDVR 1140
QY 1141 HSGSFENWMLRPGELGAPKPEAKLCAAGGLENGLNIIDLVYDFKQCPQECTPEFO 1200
Db 1141 HSGSFENWMLRPGELGAPKPEAKLCAAGGLENGLNIIDLVYDFKQCPQECTPEFO 1200

QY 1201 PPPPPHPPHPLGSGSSSTRSSRSDLSAYASISFOKOPEDRQ 1242
Db 1201 PPPPPHPPHPLGSGSSSTRSSRSDLSAYASISFOKOPEDRQ 1242

RESULT 5
US-09-903-199-5
; Sequence 5, Application US/09903199
; Patent No. US20020122802A1
; GENERAL INFORMATION:
; APPLICANT: Wands, Jack R.
; APPLICANT: de la Monte, Suzanne M.
; APPLICANT: Ince, Nedim
; APPLICANT: Carlson, Rolf I.
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
; FILE REFERENCE: 21486-032 DIV4
; CURRENT APPLICATION NUMBER: US/09/903,199
; PRIOR FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/436,184
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO: 5
; LENGTH: 1242
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-903-199-5

Query Match 100.0%; Score 1242; DB 9; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASPPESDGFSDVRKVGYLRRKPKSNHKKRFFVLRASAEAGPARLEYENKMKWRRKKSAP 60

[illegible]

Db	1081	ANQAKYTRADPOCCRRRHSHSETSSSTPRLATVENVYVFPAGGAIVGGCGSSSSSEVDXR	1144
QY	1141	HSASPFENVMLRPGELGAPKEPAKLCGAAGLENGINYIDLVLVKDFKQCECTPEPQ	1200
Db	1141	HSASPFENVMLRPGELGAPKEPAKLCGAAGLENGINYIDLVLVKDFKQCECTPEPQ	1200
QY	1201	PPPPPPHOPLGSGESSSTRSSSDLSAVASISFOKPEPQ	1242
Db	1201	PPPPPPHOPLGSGESSSTRSSSDLSAVASISFOKPEPQ	1242
RESULT 6			
US-09-903-023-5			
; Sequence 5, Application US/09903023			
; Patent No. US20020146421A1			
; GENERAL INFORMATION:			
; APPLICANT: Wands, Jack R.			
; APPLICANT: de la Monte, Suzanne M.			
; APPLICANT: Ince, Nedim			
; APPLICANT: Carlson, Rolf I.			
; TITLE OR INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS			
; FILE REFERENCE: 21486-032 Div1			
; CURRENT FILING DATE: US/09/903.023			
; PRIOR FILING DATE: 2001-10-11			
; PRIOR FILING DATE: 1999-11-08			
; NUMBER OF SEQ ID NOS: 9			
; SOFTWARE: PatentIn Ver. 2.1			
; SEQ ID NO 5			
; LENGTH: 1242			
; TYPE: PRT			
; ORGANISM: Homo sapiens			
US-09-903-023-5			
Query Match			
Beet Local Similarity 100.0%; Score 1242; DB 9; Length 1242;			
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
QY	1	MASPPESDGFEDVAKVGYLRKPKSMHRFFVTLRAASEAGPABLEYYENKKMRHKSAP	60
Db	1	MASPPESDGFEDVAKVGYLRKPKSMHRFFVTLRAASEAGPABLEYYENKKMRHKSAP	60
QY	61	KRSIPLESCFNINRKADSKNKLVALYTRDEHPAIAADSEAFQSWYQALLQLHNRAKH	120
Db	61	KRSIPLESCFNINRKADSKNKLVALYTRDEHPAIAADSEAFQSWYQALLQLHNRAKH	120
QY	121	HDGAAALGAGGGGSGSSSGELGEAGEDLSGDVPPGPAFKEWQVILKPGGLQTKLI	180
Db	121	HDGAAALGAGGGGSGSSSGELGEAGEDLSGDVPPGPAFKEWQVILKPGGLQTKLI	180
QY	181	GIYRLCTSKTISFVKLNSEAAVYVLQMLNIRCGHSENFPIEYGRSAVTGPGEFMQV	240
Db	181	GIYRLCTSKTISFVKLNSEAAVYVLQMLNIRCGHSENFPIEYGRSAVTGPGEFMQV	240
QY	241	DDSVVAQNMHTTILEANRMSDEPRPKSKSSGSCNPISVPLRRHLNPPPSQVGLT	300
Db	241	DDSVVAQNMHTTILEANRMSDEPRPKSKSSGSCNPISVPLRRHLNPPPSQVGLT	300
QY	301	RRSRTESTIATSPASMWGKPGKSGFRVRAASDDEGTMSPASVDGSPVSPTRTHAHRH	360
Db	301	RRSRTESTIATSPASMWGKPGKSGFRVRAASDDEGTMSPASVDGSPVSPTRTHAHRH	360
QY	361	GSARLHPPLNRSRSLPMPASRCSQSAVSPVSLSSSTSGHSTSDCLPRRSSASVSGSP	420
Db	361	GSARLHPPLNRSRSLPMPASRCSQSAVSPVSLSSSTSGHSTSDCLPRRSSASVSGSP	420
QY	421	SDGGFISDEYGGSSPCDFRSSFRASTPDLATHEPARGEELLSNYICMGKGPSTLTAPN	480
Db	421	SDGGFISDEYGGSSPCDFRSSFRASTPDLATHEPARGEELLSNYICMGKGPSTLTAPN	480
QY	481	GHYILSRGNGHRCPTGTGLGTPALAGDEAASADLDNRPRKTHAGTSPITTHQTP	540
Db	481	GHYILSRGNGHRCPTGTGLGTPALAGDEAASADLDNRPRKTHAGTSPITTHQTP	540

QY 541 SOSVASIIEYTEMMPAYPPGGSGGRLPGHSHSAFVPTREPEGLMHPLERRGGHHR 600
 DB 541 SOSVASIIEYTEMMPAYPPGGSGGRLPGHSHSAFVPTREPEGLMHPLERRGGHHR 600
 QY 601 PDSSTLHTDDGYMPPSPGVAPVPSGRKSGSDYMNMPKXSAPQOIIINPIRRHPQVDPN 660
 DB 601 PDSSTLHTDDGYMPPSPGVAPVPSGRKSGSDYMNMPKXSAPQOIIINPIRRHPQVDPN 660
 QY 661 GYMMMSPPGGSGSDIIGGPPSSSSSSNAVPSTGYKLMVNGVGHSHVLPHPKPVES 720
 DB 661 GYMMMSPPGGSGSDIIGGPPSSSSSSNAVPSTGYKLMVNGVGHSHVLPHPKPVES 720
 QY 721 SGGKLLPCTGDDYMNMSPVGDSTSSPSDCYYPEDPOHKPVLSTYSLPRSFKHTORPGE 780
 DB 721 SGGKLLPCTGDDYMNMSPVGDSTSSPSDCYYPEDPOHKPVLSTYSLPRSFKHTORPGE 780
 QY 781 BEGAHQHRLSTSSGRLYAATAADSSSTSSDLSGGYCGARLESPLPHPHQVLOPH 840
 DB 781 BEGAHQHRLSTSSGRLYAATAADSSSTSSDLSGGYCGARLESPLPHPHQVLOPH 840
 QY 841 LPRKVDTAQTNLSRLARPTRLSLGDPKASTLPARAEQOQQOQPLHPPEPKSPGEVYNI 900
 DB 841 LPRKVDTAQTNLSRLARPTRLSLGDPKASTLPARAEQOQQOQPLHPPEPKSPGEVYNI 900
 QY 901 FGSDOSGYLSGPVAFHSSPSVRCPSQLOPARREETGTIEYKMDLGPGRRAANQESTGV 960
 DB 901 FGSDOSGYLSGPVAFHSSPSVRCPSQLOPARREETGTIEYKMDLGPGRRAANQESTGV 960
 QY 961 EMGRGAPAPGAASICRPTRAVPSRSGDYMTQMSCPQSYVDTSPPAIVSYADMRTGIA 1020
 DB 961 EMGRGAPAPGAASICRPTRAVPSRSGDYMTQMSCPQSYVDTSPPAIVSYADMRTGIA 1020
 QY 1021 AEEVSLPRATMAAASSSSAASAPTCGPGAAELAAHSSLLGPGPGGMSAFTRVNLSPN 1080
 DB 1021 AEEVSLPRATMAAASSSSAASAPTCGPGAAELAAHSSLLGPGPGGMSAFTRVNLSPN 1080
 QY 1081 RNOSAKVIRADPOGCRHSESTFSTSATRVGNTPVFGAAGVGGGSSSEDEVYR 1140
 DB 1081 RNOSAKVIRADPOGCRHSESTFSTSATRVGNTPVFGAAGVGGGSSSEDEVYR 1140
 QY 1141 HSSASFENVMLRPGELGAPKPAKLCGAAGLENGLYIDLIVKDFKQCPQCTEPQ 1200
 DB 1141 HSSASFENVMLRPGELGAPKPAKLCGAAGLENGLYIDLIVKDFKQCPQCTEPQ 1200
 QY 1201 PPPPPHQPPLSGSSSTRSSSEDLASVASTISFOKPEDRQ 1242
 DB 1201 PPPPPHQPPLSGSSSTRSSSEDLASVASTISFOKPEDRQ 1242

RESULT 7

US-09-436-184-5
 ; Sequence 5, Application US/09436184
 ; Publication No. US20030031670A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wands, Jack R.
 ; APPLICANT: de la Monte, Suzanne M.
 ; APPLICANT: Ince, Nedim
 ; APPLICANT: Carlson, Rolf I.
 ; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
 ; FILE REFERENCE: R. I. Hosp. - Malignant Neoplasms
 ; CURRENT APPLICATION NUMBER: US/09/436.184
 ; NUMBER OF SEQ ID NOS: 7
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 5
 ; LENGTH: 1242
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-436-184-5

Query Match 100.0%; Score 1242; DB 10; Length 1242;
 Best Local Similarity 100.0%; Pred. No. 0;

Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MASPPESDGFSDVRKGVYLRKSKMHRFFVYLRASAEAGPARLEYENEXKMRKHSAP 60
 DB 1 MASPPESDGFSDVRKGVYLRKSKMHRFFVYLRASAEAGPARLEYENEXKMRKHSAP 60
 QY 61 KRSIPLESCEFNINKRADSKNKLVALYTRDEHFAIADSEADSWYQALLQHNRAKH 120
 DB 61 KRSIPLESCEFNINKRADSKNKLVALYTRDEHFAIADSEADSWYQALLQHNRAKH 120
 QY 121 HNGAALAGGGGSGCSGSGGIGENGEDLSTYDVPVPGAPKRWQVYIILKPKLOGTNLI 180
 DB 121 HNGAALAGGGGSGCSGSGGIGENGEDLSTYDVPVPGAPKRWQVYIILKPKLOGTNLI 180
 QY 181 GIYRLCTISKTISFYVNLSEAAVVLQMLNIRCHSENFFIEYGRSAVTPGSEFMQV 240
 DB 181 GIYRLCTISKTISFYVNLSEAAVVLQMLNIRCHSENFFIEYGRSAVTPGSEFMQV 240
 QY 241 DDSVVAQNNHETILEAMRAMSDFERPRSKQSSNCSNPISVPLRRHLNPPSQVGLT 300
 DB 241 DDSVVAQNNHETILEAMRAMSDFERPRSKQSSNCSNPISVPLRRHLNPPSQVGLT 300
 QY 301 RSRRTESITATSPASVVGKPGSFVRASDDEGTMSPASVDSVPSPSTRTAHHR 360
 DB 301 RSRRTESITATSPASVVGKPGSFVRASDDEGTMSPASVDSVPSPSTRTAHHR 360
 QY 361 GSARLHPPLNHSRSIEMPARSCSPATSPVLSSTSGHGSTDCLEPRRNASVSGSP 420
 DB 361 GSARLHPPLNHSRSIEMPARSCSPATSPVLSSTSGHGSTDCLEPRRNASVSGSP 420
 QY 421 SDGGFTSDSEYSSPCDFRSSFRTVPTSLGTPPARGEELSNYICMGKSPSTLTAPN 480
 DB 421 SDGGFTSDSEYSSPCDFRSSFRTVPTSLGTPPARGEELSNYICMGKSPSTLTAPN 480
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 DB 481 GHYILSRGNGHRCPTGTGLTSPALAGDEAASADLNRFRKTHSAGTSPITTHQKT 540
 QY 541 SOSVASIIEYTEMMPAYPPGGSGGRLPGHSHSAFVPTREPEGLMHPLERRGGHHR 600
 DB 541 SOSVASIIEYTEMMPAYPPGGSGGRLPGHSHSAFVPTREPEGLMHPLERRGGHHR 600
 QY 601 PDSSTLHTDDGYMPPSPGVAPVPSGRKSGSDYMNMPKXSAPQOIIINPIRRHPQVDPN 660
 DB 601 PDSSTLHTDDGYMPPSPGVAPVPSGRKSGSDYMNMPKXSAPQOIIINPIRRHPQVDPN 660
 QY 661 GYMMMSPPGGSGSDIIGGPPSSSSSSNAVPSTGYKLMVNGVGHSHVLPHPKPVES 720
 DB 661 GYMMMSPPGGSGSDIIGGPPSSSSSSNAVPSTGYKLMVNGVGHSHVLPHPKPVES 720
 QY 721 SGGKLLPCTGDDYMNMSPVGDSTSSPSDCYYPEDPOHKPVLSTYSLPRSFKHTORPGE 780
 DB 721 SGGKLLPCTGDDYMNMSPVGDSTSSPSDCYYPEDPOHKPVLSTYSLPRSFKHTORPGE 780
 QY 781 BEGAHQHRLSTSSGRLYAATAADSSSTSSDLSGGYCGARLESPLPHPHQVLOPH 840
 DB 781 BEGAHQHRLSTSSGRLYAATAADSSSTSSDLSGGYCGARLESPLPHPHQVLOPH 840
 QY 841 LPRKVDTAQTNLSRLARPTRLSLGDPKASTLPARAEQOQQOQPLHPPEPKSPGEVYNI 900
 DB 841 LPRKVDTAQTNLSRLARPTRLSLGDPKASTLPARAEQOQQOQPLHPPEPKSPGEVYNI 900
 QY 901 FGSDOSGYLSGPVAFHSSPSVRCPSQLOPARREETGTIEYKMDLGPGRRAANQESTGV 960
 DB 901 FGSDOSGYLSGPVAFHSSPSVRCPSQLOPARREETGTIEYKMDLGPGRRAANQESTGV 960
 QY 961 EMGRGAPAPGAASICRPTRAVPSRSGDYMTQMSCPQSYVDTSPPAIVSYADMRTGIA 1020
 DB 961 EMGRGAPAPGAASICRPTRAVPSRSGDYMTQMSCPQSYVDTSPPAIVSYADMRTGIA 1020
 QY 1021 AEEVSLPRATMAAASSSSAASAPTCGPGAAELAAHSSLLGPGPGGMSAFTRVNLSPN 1080
 DB 1021 AEEVSLPRATMAAASSSSAASAPTCGPGAAELAAHSSLLGPGPGGMSAFTRVNLSPN 1080

QY 1081 RNOSAKYIRADPOGCRHRHSEFTSSTPSATRVGNVTFPGAGAAVGGGGSSSSSEDEVKR 1140
DB 1081 RNOSAKYIRADPOGCRHRHSEFTSSTPSATRVGNVTFPGAGAAVGGGGSSSSSEDEVKR 1140
QY 1141 HSSASFENWMLRPGELGAPKEPAKLCGAAGLENGLNYIDLVLVDFOKQPCPECTPEPQ 1200
DB 1141 HSSASFENWMLRPGELGAPKEPAKLCGAAGLENGLNYIDLVLVDFOKQPCPECTPEPQ 1200
QY 1201 PPPPPHQPPLGSGESSSTRSSSEDLAAYASISFOKQPEDRQ 1242
DB 1201 PPPPPHQPPLGSGESSSTRSSSEDLAAYASISFOKQPEDRQ 1242

RESULT 8
US-10-085-027-1
; Sequence 1, Application US/10085027
; Publication No. US20020132759A1
; GENERAL INFORMATION:
; APPLICANT: YAZAKI, YOSHIO
; APPLICANT: ASANO, TOMOICHIRO
; APPLICANT: KUBO, HIDEO
; APPLICANT: KANDA, AKIRA
; TITLE OF INVENTION: REMEDIES FOR DISEASES CAUSED BY INSULIN RESISTANCE
; FILE REFERENCE: 4695-0019-0PCT
; CURRENT APPLICATION NUMBER: US/10/085,027
; PRIOR FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: 09/508,691
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: PCT/JP96/04293
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: JP9-263719
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 1
; LENGTH: 1242
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-085-027-1

Query Match 100.0%; Score 1242; DB 13; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASPPSDGSDYRKVGYLKKPKYSMKRFFVLRPAASEAGPALLEYYENEKKWRHKSAP 60
DB 1 MASPPSDGSDYRKVGYLKKPKYSMKRFFVLRPAASEAGPALLEYYENEKKWRHKSAP 60
QY 61 KRSIPIESCENINKRADSKYKHLVALYTRDEHFAIADSEADSDMYQALLQHNRAKH 120
DB 61 KRSIPIESCENINKRADSKYKHLVALYTRDEHFAIADSEADSDMYQALLQHNRAKH 120
QY 121 HDGAAALGAGGGGSGSGSSGLGEAGEEDLSYGDVPPGAPKEVWQYILKPKLGQTKNLI 180
DB 121 HDGAAALGAGGGGSGSGSSGLGEAGEEDLSYGDVPPGAPKEVWQYILKPKLGQTKNLI 180
QY 181 GYRLCLTSKTIISFVKLNSBAVAVVMQMWIRRCGSENEFFLEVERSAVGTGGEFWMQV 240
DB 181 GYRLCLTSKTIISFVKLNSBAVAVVMQMWIRRCGSENEFFLEVERSAVGTGGEFWMQV 240
QY 241 DSDVVAQNMETILLENARAMDDEFPRRSKQSSSNCSNPISVPLRSHHLNPPSPQVGLT 300
DB 241 DSDVVAQNMETILLENARAMDDEFPRRSKQSSSNCSNPISVPLRSHHLNPPSPQVGLT 300
QY 301 RRSRTSITATSPASVWGKPGSFYRASDGECTMSRPASVDGVSFSTRTTAHRR 360
DB 301 RRSRTSITATSPASVWGKPGSFYRASDGECTMSRPASVDGVSFSTRTTAHRR 360
QY 361 GSNRLHPLNHSRSIEMPARCSPSATSPVLSLSSSTSGHSTDCFLFRSSASVSGSP 420
DB 361 GSNRLHPLNHSRSIEMPARCSPSATSPVLSLSSSTSGHSTDCFLFRSSASVSGSP 420

QY 421 SDGFISSDEYGSFCDRSSFRSVTPDLSLHTPPARGEELSNVICMGKGGSTLTRPN 480
DB 421 SDGFISSDEYGSFCDRSSFRSVTPDLSLHTPPARGEELSNVICMGKGGSTLTRPN 480
QY 481 GHYILSRGANGHRCPTGJGLTSPALAGDEAASAADLDRNRKXTHSAGTPTTHOKTP 540
DB 481 GHYILSRGANGHRCPTGJGLTSPALAGDEAASAADLDRNRKXTHSAGTPTTHOKTP 540
QY 541 SOSVVAISIEEYTEMMPAYPPGAGGGGRLPGHRSAPVPTASYPBEGLEMPDLERRGGHR 600
DB 541 SOSVVAISIEEYTEMMPAYPPGAGGGGRLPGHRSAPVPTASYPBEGLEMPDLERRGGHR 600
QY 601 PDSSTLHPDDGYMPSPGVAPVPBGSRKSGDYMPSPKSVAPQOIIINPIRRHQVDPN 660
DB 601 PDSSTLHPDDGYMPSPGVAPVPBGSRKSGDYMPSPKSVAPQOIIINPIRRHQVDPN 660
QY 661 GYMMSPGGCGSPDIGGPPSSSSSSNAVPBGTSYKLMWNGVGHSHVLPARXPPVES 720
DB 661 GYMMSPGGCGSPDIGGPPSSSSSSNAVPBGTSYKLMWNGVGHSHVLPARXPPVES 720
QY 721 SGGKLLPCTGDMYMNPSVGDNTSSPDCCYGPEDPOHKPVLSYSLPRSFKTORPEP 780
DB 721 SGGKLLPCTGDMYMNPSVGDNTSSPDCCYGPEDPOHKPVLSYSLPRSFKTORPEP 780
QY 781 BEGARHQLRLSTSGRLLYAATADSSSTSDSLGGYCGARLBESLPHPHQVLOPH 840
DB 781 BEGARHQLRLSTSGRLLYAATADSSSTSDSLGGYCGARLBESLPHPHQVLOPH 840
QY 841 LPRKVTDAQNTSRARLTRSLDPPKASTLPARBEQOQOQOPLLHPPEPSBGEVYNIE 900
DB 841 LPRKVTDAQNTSRARLTRSLDPPKASTLPARBEQOQOQOPLLHPPEPSBGEVYNIE 900
QY 901 FGSDGSLGSPVAFHSSPSVRCPSQLOPAREEETGEEMKMDLGBGRRAAQESTGV 960
DB 901 FGSDGSLGSPVAFHSSPSVRCPSQLOPAREEETGEEMKMDLGBGRRAAQESTGV 960
QY 961 EMGRIGPAPPGAASICRPTRAVPSSRGDYMOMSCPRQSYVDTSPAPVADMRGIA 1020
DB 961 EMGRIGPAPPGAASICRPTRAVPSSRGDYMOMSCPRQSYVDTSPAPVADMRGIA 1020
QY 1021 AEEVSLPRATMAAASSSSAAGSPTGPOGAELAAHSSILGPGQPGMSAFTVNTSPN 1080
DB 1021 AEEVSLPRATMAAASSSSAAGSPTGPOGAELAAHSSILGPGQPGMSAFTVNTSPN 1080
QY 1081 RNOSAKYIRADPOGCRHRHSEFTSSTPSATRVGNVTFPGAGAAVGGGGSSSSSEDEVKR 1140
DB 1081 RNOSAKYIRADPOGCRHRHSEFTSSTPSATRVGNVTFPGAGAAVGGGGSSSSSEDEVKR 1140
QY 1141 HSSASFENWMLRPGELGAPKEPAKLCGAAGLENGLNYIDLVLVDFOKQPCPECTPEPQ 1200
DB 1141 HSSASFENWMLRPGELGAPKEPAKLCGAAGLENGLNYIDLVLVDFOKQPCPECTPEPQ 1200
QY 1201 PPPPPHQPPLGSGESSSTRSSSEDLAAYASISFOKQPEDRQ 1242
DB 1201 PPPPPHQPPLGSGESSSTRSSSEDLAAYASISFOKQPEDRQ 1242

RESULT 9
US-10-694-874-1
; Sequence 1, Application US/10694874
; Publication No. US2004009713A1
; GENERAL INFORMATION:
; APPLICANT: CELL SIGNALING TECHNOLOGY, INC.
; APPLICANT: POLAKIEWICZ, Roberto
; APPLICANT: LI, Yu
; APPLICANT: WU, Jiong
; TITLE OF INVENTION: ANTIBODIES SPECIFIC FOR PHOSPHORYLATED INS-1/2 (Set1101/Set1149
; FILE REFERENCE: CST-209
; CURRENT APPLICATION NUMBER: US/10/694,874
; PRIOR FILING DATE: 2003-10-28
; PRIOR APPLICATION NUMBER: US 60/422,409
; PRIOR FILING DATE: 2002-10-30

NUMBER OF SEQ ID NOS: 11
 ; SOFTWARE: Patent version 3.1
 ; SEQ ID NO 1
 ; LENGTH: 1242
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-694-874-1

Query Match 100.0%; Score 1242; DB 16; Length 1242;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASPESSDGFSDVRYKGYLRKPKSMKRFVLRRAASEAGPARLEYENKMKRHSAP 60
 DB 1 MASPESSDGFSDVRYKGYLRKPKSMKRFVLRRAASEAGPARLEYENKMKRHSAP 60
 QY 61 KRSLPLESCFNINRKADSKNKLVALYTRDEHFAIAADSEAEQDSWTQALLQHNRAKH 120
 DB 61 KRSLPLESCFNINRKADSKNKLVALYTRDEHFAIAADSEAEQDSWTQALLQHNRAKH 120
 QY 121 HDGAALAGAGGGGSCSGSGGAGEGDELSTYGDVPPGPAFKEMVQVILKPKGLGQTKNLI 180
 DB 121 HDGAALAGAGGGGSCSGSGGAGEGDELSTYGDVPPGPAFKEMVQVILKPKGLGQTKNLI 180
 QY 181 GIYRLCLTSKTIISFYKLNSEAAAVVLQLMNIRRCGSENPFIEVGRSAVTGPGEFMVQV 240
 DB 181 GIYRLCLTSKTIISFYKLNSEAAAVVLQLMNIRRCGSENPFIEVGRSAVTGPGEFMVQV 240
 QY 241 DDSVVAQNMHETILEAMRAMSDEFRPRKSSQSSNSCNPISVPLRRHLNPPSQVGLT 300
 DB 241 DDSVVAQNMHETILEAMRAMSDEFRPRKSSQSSNSCNPISVPLRRHLNPPSQVGLT 300
 QY 301 RRSRTESITATSPASVWGKPGSFVRASDGEGTMRSPASVDSPVSPSTNRTHAHRH 360
 DB 301 RRSRTESITATSPASVWGKPGSFVRASDGEGTMRSPASVDSPVSPSTNRTHAHRH 360
 QY 361 GSARLHPPLNHSRSLPMASRCSPGATSPVLSISSTSGHSTDCLPFRSSASVSGSP 420
 DB 361 GSARLHPPLNHSRSLPMASRCSPGATSPVLSISSTSGHSTDCLPFRSSASVSGSP 420
 QY 421 SDGFFISSDEYSSPCDFRSPFRSVTPDSLGHTPPARAGEEELSNYICMGGRKPSLTA 480
 DB 421 SDGFFISSDEYSSPCDFRSPFRSVTPDSLGHTPPARAGEEELSNYICMGGRKPSLTA 480
 QY 481 GHYILSRGNGHRCITPGTGLTSPALADDEAASADLDNRKRTKTHSAGTSPITTHOKTP 540
 DB 481 GHYILSRGNGHRCITPGTGLTSPALADDEAASADLDNRKRTKTHSAGTSPITTHOKTP 540
 QY 541 SOSVASIIEEYTEMMPAYPPGGSGGRLPGHRHSFVTRSYPEEGLEMHLERRGGHHR 600
 DB 541 SOSVASIIEEYTEMMPAYPPGGSGGRLPGHRHSFVTRSYPEEGLEMHLERRGGHHR 600
 QY 601 PDSSTLHTDDGIMPEVSPGVAVPYSGRKSGSDYMPSPKVSAPQOIIINPIRRHPQRYDPN 660
 DB 601 PDSSTLHTDDGIMPEVSPGVAVPYSGRKSGSDYMPSPKVSAPQOIIINPIRRHPQRYDPN 660
 QY 661 GYMNMSPSGGSGPDIIGGPPSSSSSSNAVPSTSGKMTNGVGHSHVLPHPKPYES 720
 DB 661 GYMNMSPSGGSGPDIIGGPPSSSSSSNAVPSTSGKMTNGVGHSHVLPHPKPYES 720
 QY 721 SGGKLLPCTGDMYANSPVGDSTNSPDCYYPEDPQHKPVLSTYSILPFSFKTQRPGE 780
 DB 721 SGGKLLPCTGDMYANSPVGDSTNSPDCYYPEDPQHKPVLSTYSILPFSFKTQRPGE 780
 QY 781 BEGAHGHRLSTSGRLLYAATADSSSTSSDLSGGYCGARLEPBLPHPHQVOPH 840
 DB 781 BEGAHGHRLSTSGRLLYAATADSSSTSSDLSGGYCGARLEPBLPHPHQVOPH 840
 QY 841 LPRKVDIAQNTSRLARPTLSLGDPKASTLPRAEQOQOQOPLHPPEPKSPSEYVNI 900
 DB 841 LPRKVDIAQNTSRLARPTLSLGDPKASTLPRAEQOQOQOPLHPPEPKSPSEYVNI 900
 QY 901 FGSDDSGVLSGVAHSSSVATCPSQLQAPAREETGTETMKNDLGGRRAAQDESTGV 960

DB 901 FGSDDSGVLSGVAHSSSVATCPSQLQAPAREETGTETMKNDLGGRRAAQDESTGV 960
 QY 961 EMGRUGPAPGAASICRPTRAVPSRGDMYTMQSCPSQYVDTSPAAVSYADWRTGIA 1020
 DB 961 EMGRUGPAPGAASICRPTRAVPSRGDMYTMQSCPSQYVDTSPAAVSYADWRTGIA 1020
 QY 1021 ABEVSLPRATYMAASSSSNAASPTGPGAAALAHSSLLGGPQPGGMSAFTRNLSPN 1080
 DB 1021 ABEVSLPRATYMAASSSSNAASPTGPGAAALAHSSLLGGPQPGGMSAFTRNLSPN 1080
 QY 1081 RNQSAKVIADPOGCRRRSSSTPSTPSATVGTVPFGAAGVAGGGGSSSSSEDEVK 1140
 DB 1081 RNQSAKVIADPOGCRRRSSSTPSTPSATVGTVPFGAAGVAGGGGSSSSSEDEVK 1140
 QY 1141 HSSASFEVWMLRPELIGAPKPAKCGAAGLENGLNTYIDLVKDFKQCECTPEPQ 1200
 DB 1141 HSSASFEVWMLRPELIGAPKPAKCGAAGLENGLNTYIDLVKDFKQCECTPEPQ 1200
 QY 1201 PPPPPHQPLOGSGESSSTRASSEDLSAYASISFOKQPEDRQ 1242
 DB 1201 PPPPPHQPLOGSGESSSTRASSEDLSAYASISFOKQPEDRQ 1242

RESULT 10
 US-10-334-143-10
 ; Sequence 10, Application US/10334143
 ; Publication No. US20040009549A1
 ; GENERAL INFORMATION:
 ; APPLICANT: GRIGORIEV, IGOR VYACHESLAVOVICH
 ; APPLICANT: SUDASANAM, SUCHA
 ; TITLE OF INVENTION: METHOD FOR DETECTING REMOTE HOMOLOGUES AND NOVEL
 ; FILE REFERENCE: 038602/1543
 ; CURRENT APPLICATION NUMBER: US/10/334,143
 ; CURRENT FILING DATE: 2002-12-31
 ; PRIOR APPLICATION NUMBER: 60/343,169
 ; PRIOR FILING DATE: 2001-12-31
 ; NUMBER OF SEQ ID NOS: 207
 ; SOFTWARE: Patent Ver. 2.1
 ; SEQ ID NO 10
 ; LENGTH: 1316
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-334-143-10

Query Match 100.0%; Score 1242; DB 15; Length 1316;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASPESSDGFSDVRYKGYLRKPKSMKRFVLRRAASEAGPARLEYENKMKRHSAP 60
 DB 75 MASPESSDGFSDVRYKGYLRKPKSMKRFVLRRAASEAGPARLEYENKMKRHSAP 134
 QY 61 KRSLPLESCFNINRKADSKNKLVALYTRDEHFAIAADSEAEQDSWTQALLQHNRAKH 120
 DB 135 KRSLPLESCFNINRKADSKNKLVALYTRDEHFAIAADSEAEQDSWTQALLQHNRAKH 194
 QY 121 HDGAALAGAGGGGSCSGSGGAGEGDELSTYGDVPPGPAFKEMVQVILKPKGLGQTKNLI 180
 DB 195 HDGAALAGAGGGGSCSGSGGAGEGDELSTYGDVPPGPAFKEMVQVILKPKGLGQTKNLI 254
 QY 181 GIYRLCLTSKTIISFYKLNSEAAAVVLQLMNIRRCGSENPFIEVGRSAVTGPGEFMVQV 240
 DB 255 GIYRLCLTSKTIISFYKLNSEAAAVVLQLMNIRRCGSENPFIEVGRSAVTGPGEFMVQV 314
 QY 241 DDSVVAQNMHETILEAMRAMSDEFRPRKSSQSSNSCNPISVPLRRHLNPPSQVGLT 300
 DB 315 DDSVVAQNMHETILEAMRAMSDEFRPRKSSQSSNSCNPISVPLRRHLNPPSQVGLT 374
 QY 301 RRSRTESITATSPASVWGKPGSFVRASDGEGTMRSPASVDSPVSPSTNRTHAHRH 360
 DB 375 RRSRTESITATSPASVWGKPGSFVRASDGEGTMRSPASVDSPVSPSTNRTHAHRH 434


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QY 361 GSARLHPPLNRSR1PMPASRCSPPAITSFVSLSSSTSGHGSTDCLFPRSSASVSGSP 420
DB 435 GSARLHPPLNRSR1PMPASRCSPPAITSFVSLSSSTSGHGSTDCLFPRSSASVSGSP 494
QY 421 SDGGFSSDEXGSSCDPRSSFRSVTPPSLGHTPPARGEELSNVTCMGGSPSTLAPN 480
DB 435 SDGGFSSDEXGSSCDPRSSFRSVTPPSLGHTPPARGEELSNVTCMGGSPSTLAPN 554
QY 481 GHYILSRGNGHRCPTGTGLTSPALAGDEAASADLONRPRKTHSAGTSPITTHOKTP 540
DB 555 GHYILSRGNGHRCPTGTGLTSPALAGDEAASADLONRPRKTHSAGTSPITTHOKTP 614
QY 541 SOSVASIEETEMMPAYPPGGSGGRLPGHRHSAFVTRRYPREGLEMLERGGHNR 600
DB 615 SOSVASIEETEMMPAYPPGGSGGRLPGHRHSAFVTRRYPREGLEMLERGGHNR 674
QY 601 PDSSTLHTDDGYMPSPGVAPYPSGRKSGDYMPSPKSVAPQIINPIRRHFORVDEN 660
DB 675 PDSSTLHTDDGYMPSPGVAPYPSGRKSGDYMPSPKSVAPQIINPIRRHFORVDEN 734
QY 661 GYMMSBEGCGSPD1CGGPPSSSSSNAPVSGTSGYKLTWVGSHSHVLPKRPVPS 720
DB 735 GYMMSBEGCGSPD1CGGPPSSSSSNAPVSGTSGYKLTWVGSHSHVLPKRPVPS 794
QY 721 SGCKLPTCTGYMMSPVGDSNTSSPDCCYGPEDPQHKLPLYSLPRSFKHQRPCEP 780
DB 795 SGCKLPTCTGYMMSPVGDSNTSSPDCCYGPEDPQHKLPLYSLPRSFKHQRPCEP 854
QY 781 BEGANHOLRLSTSSGRLLYAATADSSSTSSDGLGGYCGARLEBPLPHPHQVLOPH 840
DB 855 BEGANHOLRLSTSSGRLLYAATADSSSTSSDGLGGYCGARLEBPLPHPHQVLOPH 914
QY 841 LPRKVTAAQOTSRLAPTRLSLGPXASTLPRAEQOQOQOPLLHPPEPSPGXYVIE 900
DB 915 LPRKVTAAQOTSRLAPTRLSLGPXASTLPRAEQOQOQOPLLHPPEPSPGXYVIE 974
QY 901 FGSDOSGYLGGVAFHSSBVCPSQLOPAPREETGTIEBYKMDLGPGRAMQESTGV 960
DB 975 FGSDOSGYLGGVAFHSSBVCPSQLOPAPREETGTIEBYKMDLGPGRAMQESTGV 1034
QY 961 EWGRIGPAPGASACRPTRAVPSRSDYMTQMSCPQSYVDTSPPAPVYADARITIA 1020
DB 1035 EWGRIGPAPGASACRPTRAVPSRSDYMTQMSCPQSYVDTSPPAPVYADARITIA 1094
QY 1021 AEEVSLPRAVTAASSSSASASAPTPQGAELAAHSSILGGPQPGGMSAFTRVNLSPN 1080
DB 1095 AEEVSLPRAVTAASSSSASASAPTPQGAELAAHSSILGGPQPGGMSAFTRVNLSPN 1154
QY 1081 RNOSAKVIRADPOGCRHRSSTFSSSTPBATRVGNTVPPGANAAGGGGSSSEEDVKR 1140
DB 1155 RNOSAKVIRADPOGCRHRSSTFSSSTPBATRVGNTVPPGANAAGGGGSSSEEDVKR 1214
QY 1141 HSSASFEWVWLRPGELGAPKEPAKLCGAAGLENGLVNITDILVKDFKQCPQECTPBPQ 1200
DB 1215 HSSASFEWVWLRPGELGAPKEPAKLCGAAGLENGLVNITDILVKDFKQCPQECTPBPQ 1274
QY 1201 PPPPPPHQPLGSGSSSTRSSSEDLASVAGISFQKQPEDRQ 1242
DB 1275 PPPPPPHQPLGSGSSSTRSSSEDLASVAGISFQKQPEDRQ 1316

RESULT 11
US-10-694-874-3
; Sequence 3, Application US/10694874
; Publication No. US20040097713A1
; GENERAL INFORMATION:
; APPLICANT: CELL SIGNALING TECHNOLOGY, INC.
; APPLICANT: POLAKIEWICZ, Roberto
; APPLICANT: LI, Yu
; APPLICANT: WU, Jiong
; TITLE OF INVENTION: ANTIBODIES SPECIFIC FOR PHOSPHORYLATED IRS-1/2 (ser1101/ser1149)
; TITLE OF INVENTION: THEREOF
```

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FILE REFERENCE: CST-209
; CURRENT APPLICATION NUMBER: US/10/694,874
; CURRENT FILING DATE: 2003-10-28
; PRIOR APPLICATION NUMBER: US 60/422,409
; PRIOR FILING DATE: 2002-10-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 1231
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-694-874-3

Query Match 9.6%; Score 119; DB 16; Length 1231;
Best Local Similarity 100.0%; Pred.No. 4,5e-89;
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 156 PGAPFKEWQVILKPKGLQTKNLIIGYRLCLTSKTSIFVKUNSEAAVVLQLMNIRCG 215
DB 151 PGAPFKEWQVILKPKGLQTKNLIIGYRLCLTSKTSIFVKUNSEAAVVLQLMNIRCG 210

QY 216 HSENFPIEVGRSAVTCGPEFPMQVNDVSVAQNMHTLLEAMRMSDERPRSKQSSS 274
DB 211 HSENFPIEVGRSAVTCGPEFPMQVNDVSVAQNMHTLLEAMRMSDERPRSKQSSS 269

RESULT 12
US-09-922-226-123
; Sequence 123, Application US/09922226
; Publication No. US20030077664A1
; GENERAL INFORMATION:
; APPLICANT: Zhao, Yi
; APPLICANT: Thacher, Scott M.
; APPLICANT: Xiao, Jia-Hao
; APPLICANT: Kusari, Jyotirmoy
; APPLICANT: Chandrasektn, Roshantha A.
; TITLE OF INVENTION: Methods of Screening For Compounds That
; FILE OF INVENTION: Modulate Hormone Receptor Activity
; FILE REFERENCE: P-AR 4681
; CURRENT APPLICATION NUMBER: US/09/922,226
; CURRENT FILING DATE: 2002-01-09
; PRIOR APPLICATION NUMBER: US 60/284,797
; PRIOR FILING DATE: 2001-04-18
; NUMBER OF SEQ ID NOS: 191
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 123
; LENGTH: 113
; TYPE: PRT
; ORGANISM: Rattus sp.
US-09-922-226-123

Query Match 8.9%; Score 111; DB 10; Length 113;
Best Local Similarity 100.0%; Pred.No. 2,4e-83;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 DGFSQVAKYGLKPKSMHGRFFVTLRAASAGGPARLEYENKMKHSSAPKRSIFLE 67
DB 2 DGFSQVAKYGLKPKSMHGRFFVTLRAASAGGPARLEYENKMKHSSAPKRSIFLE 61

QY 68 SCFNINRADSKNKHVALYTRDEHPAIAADSAEDQSWYQALLQHNRAK 118
DB 62 SCFNINRADSKNKHVALYTRDEHPAIAADSAEDQSWYQALLQHNRAK 112

RESULT 13
US-09-731-660A-2
; Sequence 2, Application US/09731660A
; Publication No. US20020086972A1
; GENERAL INFORMATION:
; APPLICANT: KOUHARA, HARUHIKO
; APPLICANT: SPIVAK-KROIZMAN, TALY
; APPLICANT: LAX, IRIT
; APPLICANT: SCHLESINGER, JOSEPH
```

;; TITLE OF INVENTION: ADAPTOR PROTEIN PRS2 AND RELATED PRODUCTS AND METHODS
;; FILE REFERENCE: 098602/1023
;; CURRENT APPLICATION NUMBER: US/09/731,660A
;; CURRENT FILING DATE: 2000-12-08
;; PRIOR APPLICATION NUMBER: 08/980,523
;; PRIOR FILING DATE: 1997-12-01
;; PRIOR APPLICATION NUMBER: 60/032,093
;; PRIOR FILING DATE: 1996-12-03
;; NUMBER OF SEQ ID NOS: 8
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 2
;; LENGTH: 114
;; TYPE: PRT
;; ORGANISM: Unknown Organism
;; FEATURE:
;; OTHER INFORMATION: Description of Unknown Organism: PTB domain of
US-09-731-660A-2

Query Match 8.9%; Score 111; DB 12; Length 114;
Best Local Similarity 100.0%; Pred. No. 2.4e-83;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 156 PGAPFKEVWQVILKPKGLGQTKLIGIYRLCLTSKTSIFVKLNSEAAVVLQIMNIRRCG 215
DB 4 PGAPFKEVWQVILKPKGLGQTKLIGIYRLCLTSKTSIFVKLNSEAAVVLQIMNIRRCG 63

QY 216 HSNFFFIIEVGRSAVTGPGEFMMQVDDSVVAQNMHETILEAMRAMSDEFR 266
DB 64 HSNFFFIIEVGRSAVTGPGEFMMQVDDSVVAQNMHETILEAMRAMSDEFR 114

RESULT 14
US-10-192-381-5
;; Sequence 5, Application US/10192381
;; Publication No. US20030170807A1
;; GENERAL INFORMATION:
;; APPLICANT: THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
;; APPLICANT: WORLEY, Paul
;; APPLICANT: TU, Jian
;; APPLICANT: XIAO, Bo
;; APPLICANT: LEAHY, Daniel
;; APPLICANT: BENEXEN, Juliet
;; APPLICANT: LANAHAN, Anthony
;; TITLE OF INVENTION: NUCLEIC ACID MOLECULE ENCODING HOMER 1b PROTEIN (AS
TITLE OF INVENTION: AMENDED)
;; FILE REFERENCE: JHU1580-4
;; CURRENT APPLICATION NUMBER: US/10/192,381
;; CURRENT FILING DATE: 2002-07-09
;; PRIOR APPLICATION NUMBER: US/09/377,285
;; PRIOR FILING DATE: 1999-08-18
;; PRIOR APPLICATION NUMBER: US 60/138,426
;; PRIOR FILING DATE: 1999-06-10
;; PRIOR APPLICATION NUMBER: US 60/138,493
;; PRIOR FILING DATE: 1999-06-10
;; PRIOR APPLICATION NUMBER: US 60/138,494
;; PRIOR FILING DATE: 1999-06-10
;; PRIOR APPLICATION NUMBER: US 60/097,334
;; PRIOR FILING DATE: 1998-08-18
;; NUMBER OF SEQ ID NOS: 72
;; SOFTWARE: PatentIn version 3.0
;; SEQ ID NO 5
;; LENGTH: 105
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-192-381-5

Query Match 8.5%; Score 105; DB 14; Length 105;
Best Local Similarity 100.0%; Pred. No. 2e-78;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 161 KEWQVILKPKGLGQTKLIGIYRLCLTSKTSIFVKLNSEAAVVLQIMNIRRCGSENF 220
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DB 1 KEWQVILKPKGLGQTKLIGIYRLCLTSKTSIFVKLNSEAAVVLQIMNIRRCGSENF 60
QY 221 FFIIEVGRSAVTGPGEFMMQVDDSVVAQNMHETILEAMRAMSDEFR 265
DB 61 FFIIEVGRSAVTGPGEFMMQVDDSVVAQNMHETILEAMRAMSDEFR 105

RESULT 15
US-09-135-238B-17
;; Sequence 17, Application US/09135238B
;; Patent No. US2002017565A1
;; GENERAL INFORMATION:
;; APPLICANT: No. US2002017565A1an, Garry P.
;; APPLICANT: Hikoshi, Yasumichi
;; TITLE OF INVENTION: TOSO
;; FILE REFERENCE: A65635-1/DJB/RMS
;; CURRENT APPLICATION NUMBER: US/09/135,238B
;; CURRENT FILING DATE: 1998-08-17
;; PRIOR APPLICATION NUMBER: 60/066,063
;; PRIOR FILING DATE: 1997-11-17
;; NUMBER OF SEQ ID NOS: 31
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 17
;; LENGTH: 19
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-135-238B-17

Query Match 1.5%; Score 19; DB 9; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.8e-08;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 881 QOPLHPPEPKSPGEYVNI 899
DB 1 QOPLHPPEPKSPGEYVNI 19

Search completed: June 30, 2004, 14:17:12
Job time : 58 secs

Thu Jul 1 10:07:51 2004

us-09-903-063-5.0lig.ra1

Page 1

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OM protein - protein search, using sw model

Run on: June 30, 2004, 14:05:37 ; Search time 24 Seconds
(without alignments)
2671.644 Million cell updates/sec

Title: US-09-903-063-5
Perfect score: 1242
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Word size : 0

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1242	100.0	1242	4	US-09-508-691-1
2	718	57.8	1243	2	US-08-557-139-2
3	119	9.6	1234	2	US-08-317-310A-15
4	119	9.6	1234	5	PCT-US95-13041-15
5	111	8.9	113	3	US-09-284-033-8
6	111	8.9	113	3	US-08-729-834B-8
7	93	7.5	1155	1	US-08-094-948A-29
8	93	7.5	1155	5	PCT-US96-09319-29
9	51	4.1	112	4	US-08-580-523-10
10	19	1.5	19	4	US-09-050-861B-17
11	19	1.5	19	4	US-09-050-861B-17
12	16	1.3	159	4	US-09-508-691-5
13	16	1.3	1321	2	US-08-317-310A-16
14	16	1.3	1321	2	US-08-317-310A-16
15	16	1.3	1321	5	PCT-US95-13041-16
16	15	1.2	15	4	US-08-602-999A-382
17	15	1.2	15	4	US-09-500-124-382
18	15	1.2	15	4	US-09-508-691-2
19	15	1.2	15	4	US-09-508-691-3
20	15	1.2	15	4	US-09-508-691-4
21	15	1.2	16	1	US-08-408-604A-23
22	15	1.2	16	5	PCT-US93-09626-23
23	14	1.1	17	1	US-08-408-604A-27
24	14	1.1	17	5	PCT-US93-09626-27
25	13	1.0	13	1	US-08-408-604A-37
26	13	1.0	13	1	US-08-408-604A-39
27	13	1.0	13	5	PCT-US93-09626-37

28	13	1.0	13	5	PCT-US93-09626-39	Sequence 39, Appl
29	12	1.0	12	1	US-08-094-948A-11	Sequence 11, Appl
30	12	1.0	12	5	PCT-US96-09319-11	Sequence 11, Appl
31	12	1.0	18	1	US-08-408-604A-28	Sequence 28, Appl
32	12	1.0	18	4	US-09-579-664B-32	Sequence 32, Appl
33	12	1.0	18	5	PCT-US93-09626-28	Sequence 28, Appl
34	12	1.0	24	1	US-08-094-948A-19	Sequence 19, Appl
35	12	1.0	24	5	PCT-US96-09319-19	Sequence 19, Appl
36	11	0.9	11	1	US-08-128-971B-6	Sequence 6, Appl
37	11	0.9	11	1	US-08-128-971B-8	Sequence 8, Appl
38	11	0.9	11	1	US-08-128-971B-9	Sequence 9, Appl
39	11	0.9	11	1	US-08-652-877-48	Sequence 48, Appl
40	11	0.9	11	3	US-08-652-877-50	Sequence 50, Appl
41	11	0.9	11	3	US-08-652-877-52	Sequence 52, Appl
42	11	0.9	11	3	US-08-652-877-53	Sequence 53, Appl
43	11	0.9	11	3	US-08-476-515A-48	Sequence 48, Appl
44	11	0.9	11	3	US-08-476-515A-50	Sequence 50, Appl
45	11	0.9	11	3	US-08-476-515A-52	Sequence 52, Appl

ALIGNMENTS

RESULT 1									
US-09-508-691-1									
Sequence 1, Application US/09508691									
Patent No. 6498139									
GENERAL INFORMATION:									
APPLICANT: YAZAKI, YOSHIO									
APPLICANT: ASANO, TOMOICHIRO									
APPLICANT: KISO, HIDEO									
APPLICANT: KANDA, AKIRA									
TITLE OF INVENTION: REMEDIES FOR DISEASES CAUSED BY INSULIN RESISTANCE									
FILE REFERENCE: 4895-0019-0PCT									
CURRENT APPLICATION NUMBER: US/09/508,691									
CURRENT FILING DATE: 2000-03-29									
PRIOR APPLICATION NUMBER: PCT/JP98/04293									
PRIOR FILING DATE: 1998-09-25									
PRIOR APPLICATION NUMBER: JP9-263719									
PRIOR FILING DATE: 1997-09-29									
NUMBER OF SEQ ID NOS: 5									
SOFTWARE: PatentIn version 3.0									
SEQ ID NO 1									
LENGTH: 1242									
TYPE: PRT									
ORGANISM: Homo sapiens									
US-09-508-691-1									
Query Match									
Best Local Similarity 100.0%; Score 1242; DB 4; Length 1242;									
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
QY	1	MASPEEDGFSVDRKVGYLKKPKYKMKRPFVYLAASAGCAPALEYENKKRHKSSAP	60						
DB	1	MASPEEDGFSVDRKVGYLKKPKYKMKRPFVYLAASAGCAPALEYENKKRHKSSAP	60						
QY	61	KRSIPLESCEFNINRAADSKKCHVALYTRDEHFAIADSBAEDSWYQALLQILNRAKGH	120						
DB	61	KRSIPLESCEFNINRAADSKKCHVALYTRDEHFAIADSBAEDSWYQALLQILNRAKGH	120						
QY	121	HDGAALGAGGGGSCGSSGGLGAGEIDSYGDVPPGAPKEYWQVILKKGIGQTNLI	180						
DB	121	HDGAALGAGGGGSCGSSGGLGAGEIDSYGDVPPGAPKEYWQVILKKGIGQTNLI	180						
QY	181	GIVRLCLTSKTIISPVKLNSEAAAVLQNMIRBGHSENFPIEVGRSAVTGPEFMQV	240						
DB	181	GIVRLCLTSKTIISPVKLNSEAAAVLQNMIRBGHSENFPIEVGRSAVTGPEFMQV	240						
QY	241	DDSVAAQNMETIIEARMSDEFRPSKQSSSNCNPISVPLRRHILNPPSOVGLT	300						
DB	241	DDSVAAQNMETIIEARMSDEFRPSKQSSSNCNPISVPLRRHILNPPSOVGLT	300						
QY	301	RRSRTESITATSPASVVGKPGSFRVYASDGGGTMRPASVVGSPVSPSTNTTHARRHR	360						

Thu Jul 1 10:07:51 2004

us-09-903-063-5.0lig.rai

Page 3

QY 540 PSQSSVASIEEYTEMPPAPPGGSGGRLPGHRSAPVPTRSYEEGLEMHPLERRGHH 599
DB 541 PSQSSVASIEEYTEMPPAPPGGSGGRLPGHRSAPVPTRSYEEGLEMHPLERRGHH 600
QY 600 RPDSTLTHTDGYMMSPGVAPVPSGRKSGSDYPMPSKXSAQOQIINPFRHPQVDP 659
DB 601 RPDSTLTHTDGYMMSPGVAPVPSGRKSGSDYPMPSKXSAQOQIINPFRHPQVDP 660
QY 660 NGYMMSPSGGSPDYGSGSSSSSSSSNAVPSGTSTYGLMTNGVGHSHLPHPKPVE 719
DB 661 NGYMMSPSGGSPDYGSGSSSSSSSSNAVPSGTSTYGLMTNGVGHSHLPHPKPVE 720
QY 720 SSGGLLPLCTGDYMMSPVGDSTNSPSBDCTYGPEDPOHKVLSYSLPSPFKTQORGE 779
DB 721 SSGGLLPLCTGDYMMSPVGDSTNSPSBDCTYGPEDPOHKVLSYSLPSPFKTQORGE 780
QY 780 PEEGARHQLRLSTSSGRLLYAATADSSSTSSDLSGGYCGARLEPRLPHPHQVLOP 839
DB 781 PEEGARHQLRLSTSSGRLLYAATADSSSTSSDLSGGYCGARLEPRLPHPHQVLOP 840
QY 840 HLPKRVDTAQTNSRLAPTRISLIGDPKASTLPARBEQOQOQOPLHHPPEKSPGEYVNI 899
DB 841 HLPKRVDTAQTNSRLAPTRISLIGDPKASTLPARBEQOQOQOPLHHPPEKSPGEYVNI 900
QY 900 EFGSDQSGYLGGPVAFHSSPSVRCPSQLQAPAREEETIEEYMKMDLGGPRRAMOESTG 959
DB 901 EFGSDQSGYLGGPVAFHSSPSVRCPSQLQAPAREEETIEEYMKMDLGGPRRAMOESTG 960
QY 960 VEMGELGAPPPAASICRPTRAVPSRSDYMTQWSCPQSGYVDTSPAPVYADMTGI 1019
DB 961 VEMGELGAPPPAASICRPTRAVPSRSDYMTQWSCPQSGYVDTSPAPVYADMTGI 1020
QY 1020 AAEEVSLPRATMAAASSSSASASPTGPGAAELAAHSLILGGQPGEGMAAFRRVNLSP 1079
DB 1021 AAEEVSLPRATMAAASSSSASASPTGPGAAELAAHSLILGGQPGEGMAAFRRVNLSP 1080
QY 1080 NRNOSAKYIRADPOGCRRRHSETPTSPSATRVGNTVPFAGAAVGGGSSSSSEDEVK 1139
DB 1081 NRNOSAKYIRADPOGCRRRHSETPTSPSATRVGNTVPFAGAAVGGGSSSSSEDEVK 1140
QY 1140 RHSSASFEWVWRPELGGAPKEPAKLCGAAGLENGLNTYDLVDLVDKCPCECTPEP 1199
DB 1141 RHSSASFEWVWRPELGGAPKEPAKLCGAAGLENGLNTYDLVDLVDKCPCECTPEP 1200
QY 1200 QPPPPPPHQPUGSGESSSTRSSSEDLASVASISFOKQPEDRQ 1242
DB 1201 QPPPPPPHQPUGSGESSSTRSSSEDLASVASISFOKQPEDRQ 1243

RESULT 3
US-08-317-310A-15
Sequence 15, Application US/08317310A
Patent No. 5658701
GENERAL INFORMATION:
APPLICANT: WHITE, Morris F.
APPLICANT: SUN, Xiao Jian
APPLICANT: PIERCE, Jacalyn H.
TITLE OF INVENTION: THE IRS FAMILY OF GENES
NUMBER OF SEQUENCES: 64
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/317.310A

FILING DATE: 03-OCT-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Louis Myers
REGISTRATION NUMBER: 35,965
REFERENCE/DOCKET NUMBER: JDP-022
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 1234 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
US-08-317-310A-15

Query Match 9.6%; Score 119; DB 2; Length 1234;
Best Local Similarity 100.0%; Pred. No. 4.8e-97;
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 156 PGAPFKEWQVILKPKGLGQTKNLIGIYLCITSTISFVKLNSEAAVYQLMNIIRCG 215
DB 151 PGAPFKEWQVILKPKGLGQTKNLIGIYLCITSTISFVKLNSEAAVYQLMNIIRCG 210
QY 216 HSENFPIEVSASVATGPEEFMWQVDDSVAAQMHETILEANRMSDEFRRPSKQSSS 274
DB 211 HSENFPIEVSASVATGPEEFMWQVDDSVAAQMHETILEANRMSDEFRRPSKQSSS 269

RESULT 4
PCT-US95-13041-15
Sequence 15, Application PC/TUS9513041
GENERAL INFORMATION:
APPLICANT: WHITE, Morris F.
APPLICANT: SUN, Xiao Jian
APPLICANT: PIERCE, Jacalyn H.
TITLE OF INVENTION: THE IRS FAMILY OF GENES
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, Suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/13041
FILING DATE: Herewith
PRIOR APPLICATION NUMBER: 08/317,310
FILING DATE: 03-OCT-1994
ATTORNEY/AGENT INFORMATION:
NAME: Louis Myers
REGISTRATION NUMBER: 35,965
REFERENCE/DOCKET NUMBER: JDP-022PC
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 1234 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
PCT-US95-13041-15

Query Match 9.6%; Score 119; DB 5; Length 1234;
Best Local Similarity 100.0%; Pred. No. 4.8e-97;
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 156 PDPAFEXWQVILKPKXGLOTNIGIYRLCTISFKLNSAAAVIQLMNRRCG 215
DB 151 PDPAFEXWQVILKPKXGLOTNIGIYRLCTISFKLNSAAAVIQLMNRRCG 210
QY 216 HSENFELIVGRSAVYGPGEFPMQVDDSVAAQNMHETILEARMSDEFPRSKQSSS 274
DB 211 HSENFELIVGRSAVYGPGEFPMQVDDSVAAQNMHETILEARMSDEFPRSKQSSS 269

RESULT 5
US-09-284-033-8
; Sequence 8, Application US/09284033
; Patent No. 6194173
; GENERAL INFORMATION:
; APPLICANT: Czech, Michael P. and Klarlund, Jes K.
; TITLE OF INVENTION: BINDING PROTEINS FOR PHOSPHONOSITIDES, GRP1 OR GENERAL RECEPTOR
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 STATE STREET
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent in Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/284,033
; FILING DATE: 1999-04-06
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USSN: 08/729,834
; FILING DATE: 07 OCTOBER 1996
; APPLICATION NUMBER: PCT/US97/18152
; FILING DATE: 1997-10-07
; ATTORNEY/AGENT INFORMATION:
; NAME: MANDRAGOURAS, AMY E.
; REGISTRATION/DOCKET NUMBER: 36,207
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)742-4214
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 113 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-09-284-033-8

Query Match 8.9%; Score 111; DB 3; Length 113;
Best Local Similarity 100.0%; Pred. No. 7.1e-91;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 DGFSDVRKVGYLKPKSMKRRFFVLRAASAGCPARLEYENKRRKRSAPKKSIPLE 67
DB 2 DGFSDVRKVGYLKPKSMKRRFFVLRAASAGCPARLEYENKRRKRSAPKKSIPLE 61
QY 68 SCFNINRGRADSKKHVALYTRDEHFAIADSEADSDSWYQALLQLHNRK 118
DB 62 SCFNINRGRADSKKHVALYTRDEHFAIADSEADSDSWYQALLQLHNRK 112

RESULT 6

US-08-729-834B-8
; Sequence 8, Application US/08729834B
; Patent No. 6221841
; GENERAL INFORMATION:
; APPLICANT: Czech, Michael P.
; TITLE OF INVENTION: General Receptors for Phosphonositides
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/729,834B
; FILING DATE: October 7, 1996
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION/DOCKET NUMBER: 36,207
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 113 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-729-834B-8

Query Match 8.9%; Score 111; DB 3; Length 113;
Best Local Similarity 100.0%; Pred. No. 7.1e-91;
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 DGFSDVRKVGYLKPKSMKRRFFVLRAASAGCPARLEYENKRRKRSAPKKSIPLE 67
DB 2 DGFSDVRKVGYLKPKSMKRRFFVLRAASAGCPARLEYENKRRKRSAPKKSIPLE 61
QY 68 SCFNINRGRADSKKHVALYTRDEHFAIADSEADSDSWYQALLQLHNRK 118
DB 62 SCFNINRGRADSKKHVALYTRDEHFAIADSEADSDSWYQALLQLHNRK 112

RESULT 7
US-08-094-948A-29
; Sequence 29, Application US/08094948A
; Patent No. 5621075
; GENERAL INFORMATION:
; APPLICANT: Kahn, C. Ronald
; APPLICANT: White, Morris F.
; APPLICANT: Rothenberg, Paul Louis
; TITLE OF INVENTION: INSULIN RECEPTOR SUBSTRATE
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lahive & Cockfield
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/094,948A
FILING DATE: 21-JULY-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/643,982
FILING DATE: 18-JAN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Myers, Louis (PLM)
REGISTRATION NUMBER: 35,965
REFERENCE/DOCKET NUMBER: JDP-013DV
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 1155 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-094-948A-29

Query Match
Best Local Similarity 100.0%; Pred. No. 6.3e-74;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db
380 SRCSPSATSPVSLSSSGSTGHSSTDCLPFRRSASVSGSPDGGFISDEYSSPCDFR 439
335 SRCSPSATSPVSLSSSGSTGHSSTDCLPFRRSASVSGSPDGGFISDEYSSPCDFR 394
440 SSFRSTPDSLGHTPPARGEELSNYICWGKG 472
395 SSFRSTPDSLGHTPPARGEELSNYICWGKG 427

RESULT 8
PCT-US96-09319-29
Sequence 29, Application PC/TUS9609319
GENERAL INFORMATION:
APPLICANT: Kahn, C. Ronald
APPLICANT: White, Morris F.
APPLICANT: Rothenberg, Paul Louis
TITLE OF INVENTION: INSULIN RECEPTOR SUBSTRATE
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lahive & Cockfield
STREET: 60 State Street, Suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/09319
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/094,948
FILING DATE: 21-JULY-1993
APPLICATION NUMBER: US 07/643,982
FILING DATE: 18-JAN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Myers, Louis (PLM)
REGISTRATION NUMBER: 35,965
REFERENCE/DOCKET NUMBER: JDP-013DV
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941

INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 1155 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US96-09319-29

Query Match
Best Local Similarity 100.0%; Pred. No. 6.3e-74;
Matches 93; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db
380 SRCSPSATSPVSLSSSGSTGHSSTDCLPFRRSASVSGSPDGGFISDEYSSPCDFR 439
335 SRCSPSATSPVSLSSSGSTGHSSTDCLPFRRSASVSGSPDGGFISDEYSSPCDFR 394
440 SSFRSTPDSLGHTPPARGEELSNYICWGKG 472
395 SSFRSTPDSLGHTPPARGEELSNYICWGKG 427

RESULT 9
US-08-980-523-10
Sequence 10, Application US/08980523
Patent No. 6310181
GENERAL INFORMATION:
APPLICANT: Konara, Haruhiko
APPLICANT: Spivak-Kroizman, Taly
APPLICANT: Lax, Iril
APPLICANT: Schlessinger, Joseph
TITLE OF INVENTION: ADAPTOR PROTEIN FR22 AND
RELATED PRODUCTS AND METHODS
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: PARSED for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/980,523
FILING DATE: December 1, 1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US97/21851
FILING DATE: December 1, 1997
APPLICATION NUMBER: 60/032,093
FILING DATE: December 3, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 230/045
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 112 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-980-523-10

Query Match 4.1%; Score 51; DB 4; Length 112;
Best Local Similarity 100.0%; Pred. No. 1.8e-37;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 156 PGAFKFWQVILKPKGLQTKNLGIVLCTSKTISFVKNSFAAVYL 206
DB 4 PGAFKFWQVILKPKGLQTKNLGIVLCTSKTISFVKNSFAAVYL 54

RESULT 10
US-09-050-861B-17
; Sequence 17, Application US/09050861B
; Patent No. 655314
; GENERAL INFORMATION:
; APPLICANT: Payan, Donald
; TITLE OF INVENTION: TOSO AS A TARGET FOR DRUG SCREENING
; FILE REFERENCE: RIGL-002CON
; CURRENT APPLICATION NUMBER: US/09/050,861B
; CURRENT FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: US/09/651,150B
; PRIOR FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: US 09/050,861
; PRIOR FILING DATE: 1998-03-30
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-050-861B-17

Query Match 1.5%; Score 19; DB 4; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.1e-09;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 881 QCPILHPPEKSPGEYVNI 899
DB 1 QCPILHPPEKSPGEYVNI 19

RESULT 11
US-09-050-861B-21
; Sequence 21, Application US/09050861B
; Patent No. 655314
; GENERAL INFORMATION:
; APPLICANT: Payan, Donald
; TITLE OF INVENTION: TOSO AS A TARGET FOR DRUG SCREENING
; FILE REFERENCE: RIGL-002CON
; CURRENT APPLICATION NUMBER: US/09/050,861B
; CURRENT FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: US/09/651,150B
; PRIOR FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: US 09/050,861
; PRIOR FILING DATE: 1998-03-30
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 21
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-050-861B-21

Query Match 1.5%; Score 19; DB 4; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.1e-09;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 928 QPAPREETGTTEFYMKDL 946
DB 1 QPAPREETGTTEFYMKDL 19

RESULT 12
US-09-508-691-5

; Sequence 5, Application US/09508691

; Patent No. 6498139
; GENERAL INFORMATION:
; APPLICANT: YAZAKI, YOSHIO
; APPLICANT: ASANO, TOMOICHIRO
; APPLICANT: KIBO, HIDEO
; APPLICANT: KANDA, AKIRA
; TITLE OF INVENTION: REMEDIES FOR DISEASES CAUSED BY INSULIN RESISTANCE
; FILE REFERENCE: 4895-0019-0PCT
; CURRENT APPLICATION NUMBER: US/09/508,691
; CURRENT FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: PCT/JP98/04293
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: JP9-263719
; PRIOR FILING DATE: 1997-09-29
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-508-691-5

Query Match 1.3%; Score 16; DB 4; Length 159;
Best Local Similarity 100.0%; Pred. No. 3.5e-06;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 220 FFFIEVGRSAVTGPG 235
DB 59 FFFIEVGRSAVTGPG 74

RESULT 13
US-08-317-310A-16
; Sequence 16, Application US/08317310A
; Patent No. 5858701
; GENERAL INFORMATION:
; APPLICANT: WHITE, Morris F.
; APPLICANT: SUN, Xiao Jian
; APPLICANT: PIERCE, Jacalyn H.
; TITLE OF INVENTION: THE IRS FAMILY OF GENES
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/317,310A
; FILING DATE: 03-OCT-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Louis Myers
; REGISTRATION NUMBER: 35,965
; REFERENCE/DOCKET NUMBER: JDP-022
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1321 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-317-310A-16

Query Match 1.3%; Score 16; DB 2; Length 1321;
Best Local Similarity 100.0%; Pred. No. 2.5e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 220 FFIEVGRSAVTGPGE 235
DB 251 FFIEVGRSAVTGPGE 266

RESULT 14

US-08-317-310A-64
Sequence 64, Application US/08317310A
Patent No. 3858701
GENERAL INFORMATION:
APPLICANT: WHITE, Morris F.
APPLICANT: SUN, Xiao Jian
APPLICANT: PIERCE, Jacalyn H.
TITLE OF INVENTION: THE IRS FAMILY OF GENES
NUMBER OF SEQUENCES: 64
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/317,310A
FILING DATE: 03-OCT-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Louis Myers
REGISTRATION NUMBER: 35,965
REFERENCE/DOCKET NUMBER: JDP-022
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 64:
SEQUENCE CHARACTERISTICS:
LENGTH: 1321 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-317-310A-64

Query Match 1.3%; Score 16; DB 2; Length 1321;
Best Local Similarity 100.0%; Pred. No. 2.5e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 220 FFIEVGRSAVTGPGE 235
DB 251 FFIEVGRSAVTGPGE 266

RESULT 15

PCT-US95-13041-16
Sequence 16, Application PC/TUS9513041
GENERAL INFORMATION:
APPLICANT: WHITE, Morris F.
APPLICANT: SUN, Xiao Jian
APPLICANT: PIERCE, Jacalyn H.
TITLE OF INVENTION: THE IRS FAMILY OF GENES
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, Suite 510
CITY: Boston
STATE: Massachusetts

COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/13041
FILING DATE: Herewith
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/317,310
FILING DATE: 03-OCT-1994
ATTORNEY/AGENT INFORMATION:
NAME: Louis Myers
REGISTRATION NUMBER: 35,965
REFERENCE/DOCKET NUMBER: JDP-022PC
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 1321 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US95-13041-16

Query Match 1.3%; Score 16; DB 5; Length 1321;
Best Local Similarity 100.0%; Pred. No. 2.5e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 220 FFIEVGRSAVTGPGE 235
DB 251 FFIEVGRSAVTGPGE 266

Search completed: June 30, 2004, 14:11:58
Job time : 26 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 30, 2004, 14:00:16 ; Search time 23 Seconds
(without alignments)
2787,802 Million cell updates/sec

Title: US-09-903-063-5

Perfect score: 6593

Sequence: 1 MASPPSDGSDVRAKVGYLK.....SEDSAVASISFOKQPDRO 1242

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents, AA.*

1: /cgn2_6/ptodata/2/1aa/5A.COMB.pep.*

2: /cgn2_6/ptodata/2/1aa/5B.COMB.pep.*

3: /cgn2_6/ptodata/2/1aa/6A.COMB.pep.*

4: /cgn2_6/ptodata/2/1aa/6B.COMB.pep.*

5: /cgn2_6/ptodata/2/1aa/PCTUS.COMB.pep.*

6: /cgn2_6/ptodata/2/1aa/backfilltest.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	6593	100.0	1242	4	US-09-508-691-1
2	6553.5	99.4	1243	2	US-08-557-139-2
3	5801.5	88.0	1234	5	US-08-317-310A-15
4	5801.5	88.0	1234	5	PCT-US95-13041-15
5	5336.5	80.9	1135	1	US-08-094-948A-29
6	5336.5	80.9	1135	1	PCT-US96-09319-29
7	1953.5	29.6	1321	2	US-08-317-310A-64
8	1519	23.0	1321	2	US-08-317-310A-16
9	1519	23.0	1321	2	PCT-US95-13041-16
10	590.5	9.0	113	4	US-09-508-691-5
11	586	8.9	113	3	US-09-284-033-8
12	586	8.9	113	3	US-08-728-834B-8
13	548	8.3	112	4	US-08-980-523-10
14	289.5	4.4	1184	4	US-09-266-225D-18
15	285	4.3	1185	3	US-09-041-886-23
16	2736	3.6	2736	4	US-09-252-991A-30227
17	233.5	3.5	1312	3	US-09-041-886-19
18	233.5	3.5	1312	4	US-09-648-281-2
19	233.5	3.5	1312	4	US-09-707-919A-19
20	233.5	3.5	1312	4	US-09-083-268-3
21	232.5	3.5	2294	4	US-09-252-991A-17231
22	230.5	3.5	1495	4	US-08-522-726B-1
23	230.5	3.5	1495	4	US-09-337-384-1
24	230	3.5	969	4	US-09-252-991A-26985
25	221.5	3.4	1228	4	US-09-252-991A-17764
26	221.5	3.4	694	2	US-08-701-240-2
27	221.5	3.4	694	3	US-09-138-236-2

28	221.5	3.4	1317	3	US-09-083-521-7	Sequence 7, Appl
29	221.5	3.4	2035	1	US-08-046-585-5	Sequence 5, Appl
30	221.5	3.4	2035	1	US-08-393-703-5	Sequence 5, Appl
31	221.5	3.4	2035	5	PCT-US93-11721-5	Sequence 5, Appl
32	214.5	3.3	1411	4	US-09-894-998A-47	Sequence 28408, A
33	214.5	3.3	1411	4	US-09-252-991A-26408	Sequence 4, Appl
34	214	3.2	635	2	US-08-701-240-4	Sequence 4, Appl
35	214	3.2	635	2	US-09-138-236-4	Sequence 4, Appl
36	213.5	3.2	841	4	US-09-252-991A-26919	Sequence 26919, A
37	213	3.2	1142	2	US-08-593-118-7	Sequence 7, Appl
38	213	3.2	1142	2	US-08-845-528C-7	Sequence 7, Appl
39	213	3.2	1142	4	US-09-066-281B-7	Sequence 7, Appl
40	213	3.2	1142	4	US-09-468-433C-7	Sequence 7, Appl
41	212.5	3.2	2972	4	US-09-579-181-2	Sequence 2, Appl
42	212.5	3.2	3118	4	US-09-579-181-1	Sequence 1, Appl
43	212	3.2	957	4	US-09-252-991A-20408	Sequence 20408, A
44	212	3.2	977	4	US-09-252-991A-16655	Sequence 16655, A
45	211	3.2	1706	4	US-09-252-991A-31760	Sequence 31760, A

ALIGNMENTS

RESULT 1									
US-09-508-691-1									
Sequence 1, Application US/09508691									
Patent No. 6498139									
GENERAL INFORMATION:									
APPLICANT: YAZAKI, YOSHIO									
APPLICANT: AGANO, TOMOICHIRO									
APPLICANT: KUBO, HIDEO									
APPLICANT: KANDA, AKIRA									
TITLE OF INVENTION: REMEDIES FOR DISEASES CAUSED BY INSULIN RESISTANCE									
FILE REFERENCE: 4895-0019-OPCT									
CURRENT APPLICATION NUMBER: US/09/508, 691									
PRIORITY FILING DATE: 2000-03-29									
PRIORITY FILING DATE: 1998-09-25									
PRIORITY FILING DATE: 1997-09-29									
NUMBER OF SEQ. ID NOS: 5									
SOFTWARE: PatentIn version 3.0									
SEQ ID NO 1									
LENGTH: 1242									
TYPE: PRT									
ORGANISM: Homo sapiens									
US-09-508-691-1									
Query Match									
Best Local Similarity 100.0%; Score 6593; DB 4; Length 1242;									
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
QY	1	MASPPSDGSDVRAKVGYLKPKSMKRFVLRRAAEAGAPARLEYENKTKRHKSAP	60						
DB	1	MASPPSDGSDVRAKVGYLKPKSMKRFVLRRAAEAGAPARLEYENKTKRHKSAP	60						
QY	61	KRIPIESGKINIKRADSKRKHVALYTRDEHPALAADEBAQDSVYQALLQHNRAKH	120						
DB	61	KRIPIESGKINIKRADSKRKHVALYTRDEHPALAADEBAQDSVYQALLQHNRAKH	120						
QY	121	HDAAALGAGGGGSGSSGSGEAGEDESYGVDPGPAFKEVWQVILPKKIGQTKLI	180						
DB	121	HDAAALGAGGGGSGSSGSGEAGEDESYGVDPGPAFKEVWQVILPKKIGQTKLI	180						
QY	181	GIYRLCLTSTISFVTLNSEAAAVIQLMNIKRCGSENFPIEVRSAVITGEGEWMQV	240						
DB	181	GIYRLCLTSTISFVTLNSEAAAVIQLMNIKRCGSENFPIEVRSAVITGEGEWMQV	240						
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DB	241	DSVVAQNHEITLLEMRAMSDPEFRPSKQSSNSCNISVPLRRHIANPPPOVGLT	300						
QY	301	RSRSTSTATSPASVWGKPGSFVRVRASSDGEGTWSPASVDGSPVSTNRTHAHRH	360						

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Db 301 RRRRTSITATSPASVWGKPGSFRVPAASDGGTMSRPASVDSVSTRTTHARR 360
Qy 361 GSARLHPPLNHSRISIMPARCSPSATPVLSSTSGHGSTDLFPRRSASVSGP 420
Db 361 GSARLHPPLNHSRISIMPARCSPSATPVLSSTSGHGSTDLFPRRSASVSGP 420
Qy 421 SDGFISSDEYSSPCDPRSSFRSVTPDSLGHTPPARGBELSNYICMGKGPSTLTAP 480
Db 421 SDGFISSDEYSSPCDPRSSFRSVTPDSLGHTPPARGBELSNYICMGKGPSTLTAP 480
Qy 481 GHYILSRGNGHRCCTPGTGLTSPALAGDEAASADLDNFRKRTSAGTSPITTHOKT 540
Db 481 GHYILSRGNGHRCCTPGTGLTSPALAGDEAASADLDNFRKRTSAGTSPITTHOKT 540
Qy 541 SOSVSASIEETEMKPAVPPGGSGGRLPGHRSAPVPTSVYEEGLEMPLERRGHR 600
Db 541 SOSVSASIEETEMKPAVPPGGSGGRLPGHRSAPVPTSVYEEGLEMPLERRGHR 600
Qy 541 SOSVSASIEETEMKPAVPPGGSGGRLPGHRSAPVPTSVYEEGLEMPLERRGHR 600
Db 541 SOSVSASIEETEMKPAVPPGGSGGRLPGHRSAPVPTSVYEEGLEMPLERRGHR 600
Qy 601 PDSSTLHTDDGYMPSFGVAPVPSGRKSGDYMPKSVASADQITNPIRHPQVDPN 660
Db 601 PDSSTLHTDDGYMPSFGVAPVPSGRKSGDYMPKSVASADQITNPIRHPQVDPN 660
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Db 661 GYMMSPSGGSPDGGGSSSSSSNAVPSGTSYGLMTNGVGHSHVLPKRPVBS 720
Qy 721 SGGKLPTCTDYMMSFVGDNTSPSDCYGPEDPQHKPVLVSYPKFKTORPGB 780
Db 721 SGGKLPTCTDYMMSFVGDNTSPSDCYGPEDPQHKPVLVSYPKFKTORPGB 780
Qy 781 BEGARHRLILSTSSGLLYAATADSSSTSSDSCGCGARLPSLPHPHQVLOPH 840
Db 781 BEGARHRLILSTSSGLLYAATADSSSTSSDSCGCGARLPSLPHPHQVLOPH 840
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Db 841 LPRKVDTAQNTSLARPTLSLGDPAKSTLPAREQQOQOPLHPPEKSGEYVNI 900
Qy 901 FGSGQSYLSGPVAFHSPSVRCPSQLQAPREETGTETEMKDLGPGRRAMQSTGV 960
Db 901 FGSGQSYLSGPVAFHSPSVRCPSQLQAPREETGTETEMKDLGPGRRAMQSTGV 960
Qy 961 EMGRLGAPAGAASTICPTRAVPSRSDYMTMQMSCRQSYVDTPSPAAPSYADMTGTA 1020
Db 961 EMGRLGAPAGAASTICPTRAVPSRSDYMTMQMSCRQSYVDTPSPAAPSYADMTGTA 1020
Qy 1021 AEEVSLPRATMAAASSSASASTGPGQAAELAAHSSLLGPGQPGGMAFTRVLSPN 1080
Db 1021 AEEVSLPRATMAAASSSASASTGPGQAAELAAHSSLLGPGQPGGMAFTRVLSPN 1080
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Db 1081 RNQSAKVIADPOGCRHRSSETPSSTPAATRVNTVPFGAAGAVGGGSSSSSDVKA 1140
Qy 1141 HSSASFENVMLRPELIGAPKPKLGAAGLENGLNTLDLVXDFKQCECTPEBQ 1200
Db 1141 HSSASFENVMLRPELIGAPKPKLGAAGLENGLNTLDLVXDFKQCECTPEBQ 1200
Qy 1201 PPPPPHOPLGSGESSSTRSSSEDLASVASISFOKQPEBQ 1242
Db 1201 PPPPPHOPLGSGESSSTRSSSEDLASVASISFOKQPEBQ 1242

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RESULT 2
US-08-557-139-2
; Sequence 2, Application US/08557139
; Patent No. 5827730
; GENERAL INFORMATION:
; APPLICANT: Pedersen, Oluf
; APPLICANT: Bjorkbak, Christian
; APPLICANT: Frederiksen, Kathrine A.
; TITLE OF INVENTION: MUTANT DNA ENCODING INSULIN RECEPTOR

```

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; TITLE OF INVENTION: SUBSTRATE 1
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESSES:
; ADDRESS: No. 58277300 No. 5827730disk of No. 5827730th America
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/557,139
; FILING DATE: 12-FEB-1996
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J.
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4041.204-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 867-9655
; TELEFAX: (212) 878-9655
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1243 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-557-139-2

Query Match 99.4%; Score 6553.5; DB 2; Length 1243;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1238; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

Qy 1 MASPPESGFDVVRKGYLRKPKSMHRRFVLRASAEAGPARLEYENKGMKHSAP 60
Db 1 MASPPESGFDVVRKGYLRKPKSMHRRFVLRASAEAGPARLEYENKGMKHSAP 60
Qy 61 KASIPLESCEFINRKADSKNHLVALYTRDEHPAIAADSEADQSWYQALLQHNRAKH 120
Db 61 KASIPLESCEFINRKADSKNHLVALYTRDEHPAIAADSEADQSWYQALLQHNRAKH 120
Qy 121 HDGAALGA-GGGGSGSGSGGLGAGEDLSYGVPPGPAFKEYMOTLKPKLGOTKYL 179
Db 121 HDGAALGA-GGGGSGSGSGSGGLGAGEDLSYGVPPGPAFKEYMOTLKPKLGOTKYL 180
Qy 181 IGIVRLCTISKTISFVKLNSEAAAVVLQNMNIRCGHSENFPIEYGRSAVTGGEFMQ 239
Db 181 IGIVRLCTISKTISFVKLNSEAAAVVLQNMNIRCGHSENFPIEYGRSAVTGGEFMQ 240
Qy 240 VDDSVAAQMHETILEARMSDEFPRRSKQSSSNCNPISVLRRLHNNPPSOYGL 299
Db 240 VDDSVAAQMHETILEARMSDEFPRRSKQSSSNCNPISVLRRLHNNPPSOYGL 300
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Db 300 TRRSRTSITATSPASVWGKPGSFRVPAASDGGTMSRPASVDSVSTRTTHARR 360
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Db 360 RGSARLHPPLNHSRISIMPARCSPSATPVLSSTSGHGSTDLFPRRSASVSGP 420
Qy 420 PSDGFISSDEYSSPCDPRSSFRSVTPDSLGHTPPARGBELSNYICMGKGPSTLTAP 479
Db 420 PSDGFISSDEYSSPCDPRSSFRSVTPDSLGHTPPARGBELSNYICMGKGPSTLTAP 480
Qy 480 GHYILSRGNGHRCCTPGTGLTSPALAGDEAASADLDNFRKRTSAGTSPITTHOKT 539
Db 480 GHYILSRGNGHRCCTPGTGLTSPALAGDEAASADLDNFRKRTSAGTSPITTHOKT 540

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QY 540 PGGSSVASIIEYTEEMPAVPGGGSGRLPGHRHSAFVPTRSYPBEGLEMEPLERGGHH 599
Db 541 PGGSSVASIIEYTEEMPAVPGGGSGRLPGHRHSAFVPTRSYPBEGLEMEPLERGGHH 600
QY 600 RPDSTLHTDDGMPMPSPGVAPVPSGRKSGDYMPPSPKVSAPQOIIINPIRRHQVDP 659
Db 601 RPDSTLHTDDGMPMPSPGVAPVPSGRKSGDYMPPSPKVSAPQOIIINPIRRHQVDP 660
QY 660 NGYMMSPSGGCSFDIGGGPSSSSSSNAPVSGTSGKMTNGVGGHSHVLPHRPVYE 719
Db 661 NGYMMSPSGGCSFDIGGGPSSSSSSNAPVSGTSGKMTNGVGGHSHVLPHRPVYE 720
QY 720 SSGGKLLPCTGDMNMSPVGDSTNSPDCYGPEDPOHKPVLSTYSLSFRSFKHTORPGE 779
Db 721 SSGGKLLPCTGDMNMSPVGDSTNSPDCYGPEDPOHKPVLSTYSLSFRSFKHTORPGE 780
QY 780 PEGGAHQHLRLSTSSGRLLYATADSSSSSTSSDSLGGGYCGARLEPSPHHPHQVLP 839
Db 781 PEGGAHQHLRLSTSSGRLLYATADSSSSSTSSDSLGGGYCGARLEPSPHHPHQVLP 840
QY 840 HLPKKTDTAAQNTSRILARPTRLSGPKASTLPRAAEQOQOQOPLHPPEPKSPGEYNI 899
Db 841 HLPKKTDTAAQNTSRILARPTRLSGPKASTLPRAAEQOQOQOPLHPPEPKSPGEYNI 900
QY 900 EFGSDSGYLSCGFVAFHSSPSVRCPSQLQPADREERTGTEEMKMDLGGPRAAQESTG 959
Db 901 EFGSDSGYLSCGFVAFHSSPSVRCPSQLQPADREERTGTEEMKMDLGGPRAAQESTG 960
QY 960 VEMGRGAPAPGAASICRPTRAVPSRGDMYMQSCPRQSYVDNTPAAPVYAMRGIGI 1019
Db 961 VEMGRGAPAPGAASICRPTRAVPSRGDMYMQSCPRQSYVDNTPAAPVYAMRGIGI 1020
QY 1020 AAEVSLPRTMAAASASSAASAPTPQGAELAHSLLGAPQPGMSAFTVNTSP 1079
Db 1021 AAEVSLPRTMAAASASSAASAPTPQGAELAHSLLGAPQPGMSAFTVNTSP 1080
QY 1080 NNRQSAKVRADPQGRHSSSETFSSSTPSATRVGNTVPFGAAGVGGGSSSSSEDPK 1139
Db 1081 NNRQSAKVRADPQGRHSSSETFSSSTPSATRVGNTVPFGAAGVGGGSSSSSEDPK 1140
QY 1140 RHSSAFENVWMLRPGELGAPKXPALCGAAGLENGLVYIDLVKDKQPCOCTPBP 1199
Db 1141 RHSSAFENVWMLRPGELGAPKXPALCGAAGLENGLVYIDLVKDKQPCOCTPBP 1200
QY 1200 QPPPPPPHQPUGSGSSSTRSSSEDLAAYASISFQKQPEDRQ 1242
Db 1201 QPPPPPPHQPUGSGSSSTRSSSEDLAAYASISFQKQPEDRQ 1243

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RESULT 3
US-08-317-310A-15
; Sequence 15, Application US/08317310A
; Patent No. 5858701
; GENERAL INFORMATION:
; APPLICANT: WHITE, Morris F.
; APPLICANT: SUN, Xiao Jie
; APPLICANT: PIERCE, Jacalyn H.
; TITLE OF INVENTION: THE IRS FAMILY OF GENES
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/317,310A

```

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; FILING DATE: 03-OCT-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Louis Myers
; REGISTRATION NUMBER: 35,965
; REFERENCE/DOCKET NUMBER: JDP-022
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1234 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-317-310A-15

Query Match 88.0%; Score 5801.5; DB 2; Length 1234;
Best Local Similarity 89.1%; Pred. No. 0;
Matches 110; Conservative 36; Mismatches 83; Indels 17; Gaps 10;

QY 1 MASPPSDGFSVNRKVGILRKPKSMKRRFVLPAASEAGPAPULEYENKMKRHSAP 60
Db 1 MASPPDIDGFSVNRKVGILRKPKSMKRRFVLPAASEAGPAPULEYENKMKRHSAP 60
QY 61 KRSTPLESCFNINRARSKNKHVALYTRDEHFAIADSRBEDSWYQALLQHNRAKH 120
Db 61 KRSTPLESCFNINRARSKNKHVALYTRDEHFAIADSRBEDSWYQALLQHNRAKH 120
QY 121 HDGAALGAGGGGSCGSSGLGEGEDLSYGVPDPAPKEYWQVILKEKGLGQTNLI 180
Db 121 HDGAALGAGGGGSCGSSGLGEGEDLSYGVPDPAPKEYWQVILKEKGLGQTNLI 180
QY 121 HDGAALGAGGGGSCGSSGLGEGEDLSYGVPDPAPKEYWQVILKEKGLGQTNLI 175
Db 121 HDGAALGAGGGGSCGSSGLGEGEDLSYGVPDPAPKEYWQVILKEKGLGQTNLI 175
QY 181 GIVLCITSTKISTSVKLNSEAAVYVQLMNTIRCGHSENFTEVGSATVGGEEFMQV 240
Db 181 GIVLCITSTKISTSVKLNSEAAVYVQLMNTIRCGHSENFTEVGSATVGGEEFMQV 240
QY 176 GIVLCITSTKISTSVKLNSEAAVYVQLMNTIRCGHSENFTEVGSATVGGEEFMQV 235
Db 176 GIVLCITSTKISTSVKLNSEAAVYVQLMNTIRCGHSENFTEVGSATVGGEEFMQV 235
QY 241 DDSVAONMHTILEARMSDEPRPSKQSSSNCNPISVPLRRHLNPPSOVGLT 300
Db 241 DDSVAONMHTILEARMSDEPRPSKQSSSNCNPISVPLRRHLNPPSOVGLT 300
QY 236 DDSVAONMHTILEARMSDEPRPSKQSSSNCNPISVPLRRHLNPPSOVGLT 295
Db 236 DDSVAONMHTILEARMSDEPRPSKQSSSNCNPISVPLRRHLNPPSOVGLT 295
QY 301 RRSRTBSITATSPASNTGCRPGSPFRVYASDGGCTGSRPASVDGSPVSPSTNTHARR 360
Db 301 RRSRTBSITATSPASNTGCRPGSPFRVYASDGGCTGSRPASVDGSPVSPSTNTHARR 360
QY 296 RRSRTBSITATSPASNTGCRPGSPFRVYASDGGCTGSRPASVDGSPVSPSTNTHARR 355
Db 296 RRSRTBSITATSPASNTGCRPGSPFRVYASDGGCTGSRPASVDGSPVSPSTNTHARR 355
QY 361 GSARLHPPLNHSR8IIPWPASRCSFATSPTSASSSTSGHGSTSDCLFPPRSSASVSGSP 420
Db 361 GSARLHPPLNHSR8IIPWPASRCSFATSPTSASSSTSGHGSTSDCLFPPRSSASVSGSP 415
QY 356 GSRILHPLNHSR8IIPWPASRCSFATSPTSASSSTSGHGSTSDCLFPPRSSASVSGSP 415
Db 356 GSRILHPLNHSR8IIPWPASRCSFATSPTSASSSTSGHGSTSDCLFPPRSSASVSGSP 415
QY 421 SDGFFISDDEYSSPCDFRSPFRSVTPDLSGHTPPARGEELSNYIMGKGPSTLTAPN 480
Db 421 SDGFFISDDEYSSPCDFRSPFRSVTPDLSGHTPPARGEELSNYIMGKGPSTLTAPN 475
QY 416 SDGFFISDDEYSSPCDFRSPFRSVTPDLSGHTPPARGEELSNYIMGKGPSTLTAPN 475
Db 416 SDGFFISDDEYSSPCDFRSPFRSVTPDLSGHTPPARGEELSNYIMGKGPSTLTAPN 475
QY 481 GHYILSRGNGHRTPGTGIGTSPALAGDAASADLDNFRKRTBSAGTSPITTHOKTP 540
Db 476 GHYILSRGNGHRTPGTGIGTSPALAGDAASADLDNFRKRTBSAGTSPITTHOKTP 535
QY 541 SQSSVASIEYTEEMP-AVPPGGSGRLPGHRHSAFVPTRSYBEGLEMEPLERGGHH 599
Db 541 SQSSVASIEYTEEMP-AVPPGGSGRLPGHRHSAFVPTRSYBEGLEMEPLERGGHH 599
QY 536 SQSSVASIEYTEEMPAAVPPGGSGRLPGHRHSAFVPTRSYBEGLEMEPLERGGHH 595
Db 536 SQSSVASIEYTEEMPAAVPPGGSGRLPGHRHSAFVPTRSYBEGLEMEPLERGGHH 595
QY 600 RPDSTLHTDDGMPMPSPGVAPVPSGRKSGDYMPPSPKVSAPQOIIINPIRRHQVDP 659
Db 600 RPDSTLHTDDGMPMPSPGVAPVPSGRKSGDYMPPSPKVSAPQOIIINPIRRHQVDP 655
QY 659 RPDSTLHTDDGMPMPSPGVAPVPSGRKSGDYMPPSPKVSAPQOIIINPIRRHQVDP 655
Db 659 RPDSTLHTDDGMPMPSPGVAPVPSGRKSGDYMPPSPKVSAPQOIIINPIRRHQVDP 655
QY 660 NGYMMSPSGGCSFDIGGGPSSSSSSNAPVSGTSGKMTNGVGGHSHVLPHRPVYE 719
Db 660 NGYMMSPSGGCSFDIGGGPSSSSSSNAPVSGTSGKMTNGVGGHSHVLPHRPVYE 719
QY 656 NGYMMSPSGGCSFDIGGGPSSSSSSNAPVSGTSGKMTNGVGGHSHVLPHRPVYE 714
Db 656 NGYMMSPSGGCSFDIGGGPSSSSSSNAPVSGTSGKMTNGVGGHSHVLPHRPVYE 714
QY 720 SSGGKLLPCTGDMNMSPVGDSTNSPDCYGPEDPOHKPVLSTYSLSFRSFKHTORPGE 779
Db 720 SSGGKLLPCTGDMNMSPVGDSTNSPDCYGPEDPOHKPVLSTYSLSFRSFKHTORPGE 774

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QY 780 PEEGARHQLRLSTSSGRLLYAATADSSSTSDSLGGYCGARLEPSPHPHRYQLP 839
 DB 775 PEEGARHQLRLSTSSGRLRYTATADSSSTSDSLGGYCGARLEPSPHPHRYQLP 834
 QY 840 HLPKRYDTAQTNSRLARPTLSLGDPASTLPARBOQOQOQLHPPEPKSGEYVNI 839
 DB 835 HLPKRYDTAQTNSRLARPTLSLGDPASTLPARBOQOQOQOQLHPPEPKSGEYVNI 894
 QY 900 EFGSDQSGYLSGPVAFHSSPSVRCPSQLOPAFREETGTEEMKMDLGPGRRAWQESTG 959
 DB 895 EFGSDQSGYLSGPVAFHSSPSVRCPSQLOPAFREETGTEEMKMDLGPGRRAWQESTG 953
 QY 960 VEMKRLGPAAPGAASICRPTAVPSSRGDYTMQMSCPROSYVDTSPAAPSYADMRTGI 1019
 DB 954 VELGIGPAPGSAIVCRPTSPVNSRQDYTMQIGCPROSYVDTSPAAPSYADMRTGI 1013
 QY 1020 AAEVSLPRTMAAASSSASASAPT-GPOGA-AELAASLLGGPQPGMSAFPTVNL 1077
 DB 1014 AAEKASLPRFTGAAPPESTASASAVTPQATAEQTHSLLGGPQPGMSAFPTVNL 1073
 QY 1078 SPNNQSAKVIADPQCCRRHSETSTPSATRVGVYVFPKGAAVGG-GGGSSSSSE 1136
 DB 1074 SPNNQSAKVIADPQCCRRHSETSTPSATRVGVYVFPKGAAVGG-GGGSSSSSE 1130
 QY 1137 DVKHSASAFENWMLRPGELGAPKEPAKLGAAGLENGLNITDLVDFKQCPQECT 1196
 DB 1131 DVKHSASAFENWMLRPGELGAPKEPAKLGAAGLENGLNITDLVDFKQCPQECT 1187
 QY 1197 PEPDPPPPPHQPLGSGESSSTRSSSDLSAVASISFOKPEDRQ 1242
 DB 1188 SQQSLPPPPHQPPLGSGESSSTRSSSDLSAVASISFOKPEDRQ 1233

RESULT 4

PCT-US95-13041-15
 Sequence 15, Application PC/TUS9513041
 GENERAL INFORMATION:
 APPLICANT: WHITE, Morris F.
 APPLICANT: SUN, Xiao Jian
 APPLICANT: PIERCE, Jacalyn H.
 TITLE OF INVENTION: THE IRS FAMILY OF GENES
 NUMBER OF SEQUENCES: 63
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: LAHIVE & COCKFIELD
 STREET: 60 State Street, Suite 510
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02109-1875
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: ASCII text
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/13041
 FILING DATE: Herewith
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/317,310
 FILING DATE: 03-OCT-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Louis Myers
 REGISTRATION NUMBER: 35,965
 TELEPHONE/DOCKET NUMBER: JDP-022PC
 TELEPHONE: (617)227-7400
 TELEFAX: (617)227-5941
 INFORMATION FOR SEQ ID NO: 15:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1234 amino acids
 TYPE: amino acid
 TOPOLOGY: linear

MOLECULE TYPE: peptide
 FRAGMENT TYPE: internal
 PCT-US95-13041-15
 Query Match
 Best Local Similarity 89.1%; Pred. No. 0;
 Matches 110; Conservative 36; Mismatches 83; Indels 17; Gaps 10;
 1 MASPPESDGFSDVRKGYLRKPKSMHKEFYLRASAEGAPRLLEYENKKMKHKSAP 60
 1 MASPPDTCGFSQVVRKGYLRKPKSMHKEFYLRASAEGAPRLLEYENKKMKHKSAP 60
 61 KRSLPLESCFNINRKAADKNGHLVLYNRDHPALAADEQSWQALLQHNRAKH 120
 61 KRSLPLESCFNINRKAADKNGHLVLYNRDHPALAADEQSWQALLQHNRAKH 120
 121 HDGA---CGCGGSGSGSGGSGGLGEAGEDLSYGDVPPGAPKXVQVILKPKGLQGTNLI 180
 121 HDGA---CGCGGSGSGSGGSGGLGEAGEDLSY-DTGPAPKXVQVILKPKGLQGTNLI 175
 181 GYRLCTSKTISFYKLNSEAAVYLOLMTNRCHSENFPIEYGRSAVTPGPEFMQV 240
 176 GYRLCTSKTISFYKLNSEAAVYLOLMTNRCHSENFPIEYGRSAVTPGPEFMQV 235
 241 DQSVVAQNNHETILNABRMSDEFPRKSKOSSSNCNPISVPLRRHLNPPSQVGLT 300
 236 DQSVVAQNNHETILNABRMSDEFPRKSKOSSSNCNPISVPLRRHLNPPSQVGLT 295
 301 RRSRTESITATSPAMWGKPKSGFRVYRASDGEQMSRPASVDGSPVSPSTRTTAHNR 360
 296 RRSRTESITATSPAMWGKPKSGFRVYRASDGEQMSRPASVDGSPVSPSTRTTAHNR 355
 361 GSARLHPPLNHRSLPMPASRCSFATSPVLSSSSTSGHSTSDCLPPRSSASVSGSP 420
 356 GSARLHPPLNHRSLPMPASRCSFATSPVLSSSSTSGHSTSDCLPPRSSASVSGSP 415
 421 SDGFTISDDEYSSPCDFRSPFRSVTPSLGHTPPARCEBELSNYICMGKQPSLTLPN 480
 416 SDGFTISDDEYSSPCDFRSPFRSVTPSLGHTPPARCEBELSNYICMGKQPSLTLPN 475
 481 GHYIISRGNGHRCPTGTLGTPSPALAGDEAASADLNFRKRTSHSAGSTPTTHQCTP 540
 476 GHYIISRGNGHRCPTGTLGTPSPALAGDEAASADLNFRKRTSHSAGSTPTTHQCTP 535
 541 SQGSVAISIEYTEWMP-AVPPGSGSGRLPGHRSAFVPTSYPEELGEMPLERRGGH 599
 536 SQGSVAISIEYTEWMP-AVPPGSGSGRLPGHRSAFVPTSYPEELGEMPLERRGGH 595
 600 RPDSTLHTDDGYMMSGVAVPSPGRKSGSDPYMSPKSYASAPQIINPIRRHQRVDP 659
 596 RPDSTLHTDDGYMMSGVAVPSPGRKSGSDPYMSPKSYASAPQIINPIRRHQRVDP 655
 660 NGYMMMSPEGSGSPIDIGGPPSSSSSSSNAVPSGTGKLTNGVGGHSHVLPHPKPYVE 719
 656 NGYMMMSPEGSGSPIDIGG-GSSSSSSISAAFGSGSYGKFTNGVGGHSHVLPHPKPYVE 714
 720 SSGKLLPCTGDDYMMSPVGDNTSSPSDQVYGPDPQHKVPLSTYSYLPRASKTORGE 779
 715 SSGKLLPCTGDDYMMSPVGDNTSSPSDQVYGPDPQHKVPLSTYSYLPRASKTORGE 774
 780 PEEGARHQLRLSTSSGRLLYAATADSSSTSDSLGGYCGARLEPSPHPHRYQLP 839
 775 PEEGARHQLRLSTSSGRLRYTATADSSSTSDSLGGYCGARLEPSPHPHRYQLP 834
 QY 840 HLPKRYDTAQTNSRLARPTLSLGDPASTLPARBOQOQOQOQLHPPEPKSGEYVNI 899
 DB 835 HLPKRYDTAQTNSRLARPTLSLGDPASTLPARBOQOQOQOQOQLHPPEPKSGEYVNI 894
 QY 900 EFGSDQSGYLSGPVAFHSSPSVRCPSQLOPAFREETGTEEMKMDLGPGRRAWQESTG 959
 DB 895 EFGSDQSGYLSGPVAFHSSPSVRCPSQLOPAFREETGTEEMKMDLGPGRRAWQESTG 953
 QY 960 VEMKRLGPAAPGAASICRPTAVPSSRGDYTMQMSCPROSYVDTSPAAPSYADMRTGI 1019

Db 954 VELGRIGAPPGATGATCRPRFSVFNRSRGDMTQICPQOSYDTSFVAPVSGADMTSTI 1013
Qy 1020 AAEVEVLPRITMAAASSSAASAP-GRQGA-AELAAHSSLIGQSGGMSAFTRVNL 1077
Db 1014 AAKASLPRTGAAPPSSSTASSASVTPQGAATGATHSSLIGQSGGMSAFTRVNL 1073
Qy 1078 SPNRNOSAKYIRADPOGCRHRHSETFSSTPSATRVGNTVPGAGAAGVGG-GGSSSSSE 1136
Db 1074 SPFNAGSAKYIRADTQGCRRHSETFS---APTAGNTVPGAGAAGVGGGGGGSSSE 1130
Qy 1137 DVKRRHSASFTENWLRPELGGAPKPEPAKCGAAGLENGLNTIDLVDFKQCFQECT 1196
Db 1131 DVKRRHSASFTENWLRPELGGAGVSKSAPVCGAAGLEKSLNTIDLVDFKQCFQECT 1187
Qy 1197 PEPQPPPPPHOPLGSGESSSTRSSEDLASAYASISFOKQPEDRQ 1242
Db 1188 SQQOSLPPEPPHOPPLGSGESSSTRSSEDLASAYASISFOKQPEDRQ 1233

RESULT 5
US-08-094-948A-29
; Sequence 29, Application US/08094948A
; Patent No. 5621075
; GENERAL INFORMATION:
; APPLICANT: Kahn, C. Ronald
; APPLICANT: White, Morris F.
; APPLICANT: Rothenberg, Paul Louis
; TITLE OF INVENTION: INSULIN RECEPTOR SUBSTRATE
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESS: Lahive & Cockfield
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/094,948A
; FILING DATE: 21-JULY-1993
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/643,982
; FILING DATE: 18-JAN-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Myers, Louis (PLM)
; REGISTRATION NUMBER: 35,965
; REFERENCE/DOCKET NUMBER: JDP-013DV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 29:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1155 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-094-948A-29

Query Match 80.9%; Score 5336.5; DB 1; Length 1155;
Best Local Similarity 82.8%; Pred. No. 0;
Matches 1033; Conservative 33; Mismatches 84; Indels 97; Gaps 10;

Qy 1 MASPPSDGSDSRKYGILAKPKSMKRPVLAASEAGGAPALLEYENKMKRHSAP 60
Db 1 MASPPDIDGSDVRKYGILAKPKSMKRPVLAASEAGGAPALLEYENKMKRHSAP 60
Qy 61 KRSLPLESCFNINKRADSKKKHLVALYTRDEHFAIAADSEADSDSYQALLQLHRAKQH 120

Db 61 KRSLPLESCFNINKRADSKKKHLVALYTRDEHFAIAADSEADSDSYQALLQLHRAKQH 120
Qy 121 HDGAALGAGGGGSCGSSGLGAGBDLSYGVPVPPAPKRWQVILKRGAGCTQNTL 180
Db 121 HDGA---GGCGGSCGSSGSGVAGBDLSY-DGPPAPKRWQVILKRGAGCTQNTL 175
Qy 181 GYVRLCTLSKTISSFVKLNSSEAAVVLQMLNIRRCGSENFLEVGRAVTPGEFWMQV 240
Db 176 GYVRLSLTSKTISSVNLKNSSEAAVVLQMLNIRRCGSENFLEVGRAVTPGEFWMQV 212
Qy 241 DQSVVAQNMETIIEAMFASDEPRPSKQSSGNCNPISVPLRRHLNPPSQVGLT 300
Db 213 -----RAMSHERRPRTKQSSSSCNPISVPLRRHLNPPSQVGLT 255
Qy 301 RRSRTESITATSPASMTGKPKSPRYVASSDGEETMRPASVDS PVSPTNRTHARRH 360
Db 256 RRSRTESITATSPASMTGKPKSPRYVASSDGEETMRPASVDS PVSPTNRTHARRH 315
Qy 361 GSARLHPPLNHSRIIMPASRCPSPATSPVSLSSSTSGHGSTDCLPFRSSASVSGSP 420
Db 316 GSARLHPPLNHSRIIMPASRCPSPATSPVSLSSSTSGHGSTDCLPFRSSASVSGSP 375
Qy 421 SDGGFISDEYSGSPCDPRSSFRSVTPDSLGHTPPARGEELASYICMGKGPELTAPN 480
Db 376 SDGGFISDEYSGSPCDPRSSFRSVTPDSLGHTPPARGEELASYICMGKGPELTAPN 435
Qy 481 GHYILSRGNGRCHTPTGTGTSPLAAGDEAASADIDNRRKTHAGTSPTTHQKTP 540
Db 436 GHYILSRGNGRCHTPTGTGTSPLAAGDEAAGADIDNRRKTHAGTSPTTHQKTP 495
Qy 541 SOSVYASIEETEMPP-AVPPGSGGRLPCHRSATVPPRSYPERLEHMERRGH 599
Db 496 SOSVYASIEETEMPPAVPPGSGGRLPCHRSATVPPRSYPERLEHMERRGH 555
Qy 600 RPDSTLTDDGVMSPGVAFVPSGGRGSGDYMPKSVASAPQIINPIRHPOVDP 659
Db 556 RPDSTLTDDGVMSPGVAFVPSGGRGSGDYMPKSVASAPQIINPIRHPOVDP 615
Qy 660 NGYMMSPSGGSCSDIDGGPSSSSSSNANVPSGYSYKLTNGYGHSHYLPHPKPYE 719
Db 616 NGYMMSPSGGSCSDIDGGPSSSSSSNANVPSGYSYKLTNGYGHSHYLPHPKPYE 674
Qy 720 SSGGLPCTDYMNMSPVGDSPNTSSPDCCYGGEDQKHVLSYSLPSPFKTORPGE 779
Db 675 SSGGLPCTDYMNMSPVGDSPNTSSPDCCYGGEDQKHVLSYSLPSPFKTORPGE 734
Qy 780 PEEGARHQLRLSTSGRLLYAATADSSSTSSDSTGGGCGARLEBSLPHPHQVLP 839
Db 735 PEEGARHQLRLSTSGRLRYATATADSSSTSSDSTGGGCGARLEBSLPHPHQVLP 794
Qy 840 HLPKRVDTAAQTNRLARPRLSLGDPKASLTPARE-----QQQQQRLHPKPKPGE 895
Db 795 HLPKRVDTAAQTNRLARPRLSLGDPKASLTPARE-----QQQQQRLHPKPKPGE 854
Qy 896 YNIEFSGDQSGYLSGPAFHSSPVCPQSLQPAPEEETGTEYKMDIGPGRRAWQ 955
Db 855 YNIEFSGDQSGYLAGATSSSPSVCLQLHPAPR-EETGSEYKMDIGPGRRAWQ 913
Qy 956 ESTGVEMGRGAPAPGPAASICRPTRAVPSRGDMTQICPQOSYDTSFVAPVSGADMT 1015
Db 914 ESTGVEMGRGAPAPGPAASICRPTRAVPSRGDMTQICPQOSYDTSFVAPVSGADMT 973
Qy 1016 RTGIAAEVSLPRATMAAASSSAASAPTPGQGAELAAHSSLIGQSGGMSAFTRV 1075
Db 974 RTGIAAEVSLPRATMAAASSSAASAPTPGQGAELAAHSSLIGQSGGMSAFTRV 1001
Qy 1076 NLSNRNOSAKYIRADPOGCRHRHSETFSSTPSATRVGNTVPGAGAAGVGGGGSSSS 1135
Db 1002 -----ASVVIIRADTQGCRRHSETFS---APTAAATVSGAGAA---GGGSGGGS 1048
Qy 1136 EDVRRHSASFTENWLRPELGGAPKPEPAKCGAAGLENGLNTIDLVDFKQCFQECT 1195
Db 1049 EDVRRHSASFTENWLRPELGGAGVSKSAPVCGAAGLEKSLNTIDLVDFKQCFQECT 1108

Qy 1196 TPEOPPPPPHQPPLGSGSSSTRSSEDLASAYASISFOKQPEDRQ 1242
Db 1109 PSCQOSLPPEPPHQPPLGSGSSSTRSSEDLSTASINIFOKQPEDRQ 1155

RESULT 6

PCT-US96-09319-29
Sequence 29, Application PC/TUS9609319
GENERAL INFORMATION:
APPLICANT: Kahn, C. Ronald
APPLICANT: White, Morris F.
APPLICANT: Rothenberg, Paul Louis
TITLE OF INVENTION: INSULIN RECEPTOR SUBSTRATE
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lathive & Cockfield
STREET: 60 State Street, Suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/09319
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/094,948
FILING DATE: 21-JULY-1993
APPLICATION NUMBER: US 07/643,962
FILING DATE: 18-JAN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Myers, Louis (PLM)
REGISTRATION NUMBER: 35,965
REFERENCE/DOCKET NUMBER: JDP-013DV
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 1155 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US96-09319-29

Query Match 80.9%; Score 5336.5; DB 5; Length 1155;
Best Local Similarity 82.8%; Pred. No. 0;
Matches 1033; Conservative 33; Mismatches 84; Indels 97; Gaps 10;

Qy 1 MASPPSDSESDVRKVGKRYRKPKSMKRPFLVRAASEAGGPARLEVEYNEKKMKHKSAP 60
Db 1 MASPPDTSDFSVRKVGKRYRKPKSMKRFVLRASEAGGPARLEVEYNEKKMKHKSAP 60
Qy 61 KASIPLESCFNINKKADSNKRLVALYTRDEHFALIAADSEABODSWYQALLQHNRAKH 120
Db 61 KASIPLESCFNINKKADSNKRLVALYTRDEHFALIAADSEABODSWYQALLQHNRAKH 120
Qy 121 HCGAALAGGGGGGCGSSGSGEAGEDELSTVDVPPGAPKRWQVILIKPGIGQTKLI 180
Db 121 HCGAALAGGGGGGCGSSGSGEAGEDELSTVDVPPGAPKRWQVILIKPGIGQTKLI 175
Qy 121 HCGAALAGGGGGGCGSSGSGEAGEDELSTVDVPPGAPKRWQVILIKPGIGQTKLI 175
Db 121 HCGAALAGGGGGGCGSSGSGEAGEDELSTVDVPPGAPKRWQVILIKPGIGQTKLI 175
Qy 181 GIYRLCTSKTISFYVLSSEAAVVLQLNIRRCGSENFPEIEVGRSAVTGPGEFMNV 240
Db 176 GIYRLSTSKTISFYVLSSEAAVVLQLNIRRCGSENFPEIEVGRSAVTGPGEFMNV 212
Qy 241 DDSVVAQNMRHTILKMRMSDEPRRSKSSSSNSCNPISVPLRRHLNPPPSQVGLT 300
Db 213 -----RAMSHEFRPRTKSSSSSCSNPISVPLRRHLNPPPSQVGLT 255

Qy 301 RRSRTESITATSPASWVGKPGSFVRVASDDEGTMSPASVDGSPVSPSTNRTAHRR 360
Db 256 RRSRTESITATSPASWVGKPGSFVRVASDDEGTMSPASVDGSPVSPSTNRTAHRR 315
Qy 361 GSKRLHPPLNHSRSLPMPASRCSPATSPVSLSSSSTSGHSTDCLPFRRSASVSGP 420
Db 316 GSKRLHPPLNHSRSLPMPASRCSPATSPVSLSSSSTSGHSTDCLPFRRSASVSGP 375
Qy 421 SDGFISSDEYSSPCDFRSFRSVTPDSLGHTPPACGEELSNYICMGKGPSTLTAPN 480
Db 376 SDGFISSDEYSSPCDFRSFRSVTPDSLGHTPPACGEELSNYICMGKGPSTLTAPN 435
Qy 481 GHYILSRGNGHRTCTGTGTPALAGDEAASADLNRPRKTHSAGTSTTIYOKTP 540
Db 436 GHYILSRGNGHRTCTGTGTPALAGDEAASADLNRPRKTHSAGTSTTIYOKTP 495
Qy 541 SSSVASIEYTEMMP-APPDGGSGRLPGHRSFAVPTRSYPEGLEMLERGGHN 599
Db 496 SSSVASIEYTEMMP-APPDGGSGSGRLPGHRSFAVPTRSYPEGLEMLERGGHN 555
Qy 600 RPDSTLTHTDDGYMPSGVAVPVPSGRKSGSDYMPKSVSAPQOIINPIRRHQRVD 659
Db 556 RPDSTLTHTDDGYMPSGVAVPVPSGRKSGSDYMPKSVSAPQOIINPIRRHQRVD 615
Qy 660 NGYMMMSPPSGGCPD1CGGPPSSSSSNAPSGTSGYGLMTGVGGHSHVLPHPPPYE 719
Db 616 NGYMMMSPPSGGCPD1CGG-SCSSSISAPSGSSYCKWTVGGHSHLPHAKPYE 674
Qy 720 SSGKLLPCTGDYMNSSPVGDSNTSSPSDCYTGPEDPQHKPVLSYSLPSRSTKTPGE 779
Db 675 SSGKLLPCTGDYMNSSPVGDSNTSSPSDCYTGPEDPQHKPVLSYSLPSRSTKTPGE 734
Qy 780 PEEGARHQLRLSTSGRLLVYATDSSSSSGLGGYCGARLEPSLPHHOVLDP 839
Db 735 PEEGARHQLRLSTSGRLLVYATDSSSSSGLGGYCGARLEPSLPHHOVLDP 794
Qy 840 HLPKRYDTAQTNSRLARPTRLSLGDPKASTLPRAE-----QQQQQPLHPPEPKSGE 895
Db 795 HLPKRYDTAQTNSRLARPTRLSLGDPKASTLPRAE-----QQQQQPLHPPEPKSGE 854
Qy 896 YNIIERGSOSGLSPVAFHSSPSYRCSQOPAREEETGEEYMKDLPGRRAAQ 955
Db 855 YNIIERGSOSGLSPVAFHSSPSYRCSQOPAREEETGEEYMKDLPGRRAAQ 913
Qy 956 ESTGVEMGRGPAPPAASICRPTTRAVPSRSGDYMTQMSCPROSYVDTSPAPVYADM 1015
Db 914 ESTGVEMGRGPAPPAASICRPTTRAVPSRSGDYMTQMSCPROSYVDTSPAPVYADM 973
Qy 1016 RTGIAAEVSLPFAITMAAASSSSAASASTGTGQAAELAAHSLGPGPGGMSAFTRY 1075
Db 974 RTGIAAEVSLPFAITMAAASSSSAASASTGTGQAAELAAHSLGPGPGGMSAFTRY 1001
Qy 1076 NLSFNNOSAKVIRADPOGCRHRSSETFSSATIRVNTVPFGAGAAVGGGGSSSSS 1135
Db 1002 -----ASVKYIRATDTGCRHRSSETFSSATIRVNTVPFGAGAAVGGGGSSSSS 1048
Qy 1136 EDYKRHSASFEVNTVLRPGELGAPKPEPAKLCSAAGLENGLYITLDLVKPFKQPOGC 1195
Db 1049 EDYKRHSASFEVNTVLRPGELGAPKPEPAKLCSAAGLENGLYITLDLVKPFKQPOGC 1108
Qy 1196 TPEOPPPPPHQPPLGSGSSSTRSSEDLASAYASISFOKQPEDRQ 1242
Db 1109 PSCQOSLPPEPPHQPPLGSGSSSTRSSEDLSTASINIFOKQPEDRQ 1155

RESULT 7

US-08-317-310A-64
Sequence 64, Application US/08317310A
Patent No. 5858701
GENERAL INFORMATION:
APPLICANT: WHITE, Morris F.
APPLICANT: SUN, Xiao Jian

Thu Jul 1 10:07:52 2004

us-09-903-063-5.ra1

Page 10

Db 121 FIVSGARRHHVNLVLPSSQGLVRSKTDLSLATPPAA 159

RESULT 11
US-09-284-033-8
Sequence 8, Application US/09284033

Patent No. 6194173

GENERAL INFORMATION:

APPLICANT: Czechn, Michael P. and Klarlund, Jes K.

TITLE OF INVENTION: BINDING PROTEINS FOR PHOSPHINOSITIDES, GRII OR GENERAL RECEPTOR

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD, LLP

STREET: 28 STATE STREET

CITY: BOSTON

STATE: MASSACHUSETTS

COUNTRY: USA

ZIP: 02109-1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/284,033

FILING DATE: 1999-04-06

CLASSIFICATION: 5.14

PRIOR APPLICATION DATA:

APPLICATION NUMBER: USSN. 08/729,834

FILING DATE: 07 OCTOBER 1996/18152

APPLICATION NUMBER: PCT/US97/18152

FILING DATE: 1997-10-07

ATTORNEY/AGENT INFORMATION:

NAME: MANDRAGOURAS, AMY E.

REGISTRATION NUMBER: 36,207

REFERENCE/DOCKET NUMBER: UMW-016C2US

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617)227-7400

TELEFAX: (617)742-4214

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 113 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FRAGMENT TYPE: internal

US-09-284-033-8

Query Match 8.9%; Score 586; DB 3; Length 113;
Best Local Similarity 99.1%; Pred. No. 7.1e-35;
Matches 111; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 7 SDGFSVRRVGYLRPKSMHKKRFFVLRASAGGPARLEYENKKMKHKSAPKRSIPL 66
Db 1 TDGFSVRRVGYLRPKSMHKKRFFVLRASAGGPARLEYENKKMKHKSAPKRSIPL 60

QY 67 ESCFNINKRADSCKNKLVALYTRDEHFALTAADSEAEODSWYQALLQLHNRAK 118
Db 61 ESCFNINKRADSCKNKLVALYTRDEHFALTAADSEAEODSWYQALLQLHNRAK 112

RESULT 12
US-08-729-834B-8
Sequence 8, Application US/08729834B

Patent No. 6221841

GENERAL INFORMATION:

APPLICANT: Czechn, Michael P.

TITLE OF INVENTION: General Receptors for Phosphoinositides

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

US-08-729-834B-8

ADDRESSEE: LAHIVE & COCKFIELD
STREET: 28 State Street

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02109-1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/729,834B

FILING DATE: October 7, 1996

CLASSIFICATION: 5.36

ATTORNEY/AGENT INFORMATION:

NAME: Amy E. Mandragouras

REGISTRATION NUMBER: 36,207

REFERENCE/DOCKET NUMBER: UMW-018

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617)227-7400

TELEFAX: (617)227-5941

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 113 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FRAGMENT TYPE: internal

US-08-729-834B-8

Query Match 8.9%; Score 586; DB 3; Length 113;
Best Local Similarity 99.1%; Pred. No. 7.1e-35;
Matches 111; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 7 SDGFSVRRVGYLRPKSMHKKRFFVLRASAGGPARLEYENKKMKHKSAPKRSIPL 66
Db 1 TDGFSVRRVGYLRPKSMHKKRFFVLRASAGGPARLEYENKKMKHKSAPKRSIPL 60

QY 67 ESCFNINKRADSCKNKLVALYTRDEHFALTAADSEAEODSWYQALLQLHNRAK 118
Db 61 ESCFNINKRADSCKNKLVALYTRDEHFALTAADSEAEODSWYQALLQLHNRAK 112

RESULT 13
US-08-980-523-10
Sequence 10, Application US/08980523

Patent No. 6310181

GENERAL INFORMATION:

APPLICANT: Kouhara, Haruhiko

APPLICANT: Spivak-Kroizman, Taly

APPLICANT: Lax, Iril

APPLICANT: Schlasinger, Joseph

TITLE OF INVENTION: ADAPTOR PROTEIN FR32 AND

NUMBER OF SEQUENCES: 11

CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon

STREET: 633 West Fifth Street

STREET: Suite 4700

CITY: Los Angeles

STATE: California

COUNTRY: U.S.A.

ZIP: 90071-2066

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 MB

MEDIUM TYPE: storage

COMPUTER: IBM compatible

OPERATING SYSTEM: IBM P.C. DOS 5.0

SOFTWARE: FastSeq for Windows 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/980,523

FILING DATE: December 1, 1997

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CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US97/21851
FILING DATE: December 1, 1997
APPLICATION NUMBER: 60/032,093
FILING DATE: December 3, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Waidburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 230/045
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 112 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-980-523-10

Query Match      8.3%; Score 548; DB 4; Length 112;
Best Local Similarity 96.5%; Pred. No. 3.8e-32;
Matches 110; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

QY      153 DVPPGAPKXWQVILKPKGLGQTKNLIGYRLCLTSKTSFVKLNSEAAAVIQLMNI 212
DB      1 DTGPGAPKXWQVILKPKGLGQTKNLIGYRLCLTSKTSFVKLNSEAAAVIQLMNI 59

QY      213 RGHSENFETEVRSATVGGFFMGMQDSDVAVQNMHEITLLEMRMSDEFRP 266
DB      60 RGHSENFETEVRSATVGGFFMGMQDSDVAVQNMHEITLLEMRMSDEFRP 112

RESULT 14
US-09-266-225D-18
Sequence 18, Application US/09266225D
Patent No. 6573364
GENERAL INFORMATION:
APPLICANT: Nandabalan, Krishan
APPLICANT: Kingsmore, Stephen
APPLICANT: Tchiernev, Velizar
TITLE OF INVENTION: Isolation and Characterization of Hermansky-Pudlak
TITLE OF INVENTION: Syndrome (HPS) protein complexes and HPS protein-
TITLE OF INVENTION: Interacting Proteins
FILE REFERENCE: 15866-523
CURRENT APPLICATION NUMBER: US/09/266,225D
CURRENT FILING DATE: 1999-03-10
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 18
LENGTH: 1164
TYPE: PRT
ORGANISM: Homo sapiens
US-09-266-225D-18

Query Match      4.4%; Score 289.5; DB 4; Length 1164;
Best Local Similarity 22.1%; Pred. No. 4.2e-12;
Matches 203; Conservative 71; Mismatches 347; Indels 287; Gaps 34;

QY      410 RRSASVSGSPDGGFISD-----EYGGSP--CDFSSFRSVTPDLSLGHTPPARG 458
DB      32 RASPGVSTSSDGGRAKSRCTAKKARVEASTPKVNRQGRSEIESESEETVAPKXTK 91

QY      459 EBEELSNYICMGKGGSTLTAPNGHYILSRGGNGHCTPGTGLGTPALAGDEAASADLD 518
DB      92 TEELR-----FQSSDLDLSDGRSLNDGSSDPR-----DIDQD 126

QY      519 NFRKRTSAGTSPITTHQKTPSQSVASIEEYTEMPAYPPGGSGGRLPGHSHAFVP 578
DB      127 NR-----STSPSI-----YSQSVENDSDS---SSGLSQGPARFHPPLPP 166

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QY      579 -----TRSYPEEGLEMHPLERGGHNR-----PDSSTLHTDDGYMSPGVAVPVSGRK 627
DB      167 SQPPDSTPRQPEASREPHPSVTPTGGYHAPMEPFSRNFQAPGAPPPHPQLYPCGTGV 226

QY      628 GSGDYMPSPKSVSAPQILNPI--RRHPQYDPLNGYMMBSGGCSDDIGGSSSSSS 685
DB      227 LSGP--FMGPKGGGAASSVGGPNQKQHPPTPTISV-----SSSGA 266

QY      686 SNAVPGSTYGLMTNGVG-----HSHYLPH--PKPPVSSGAKLPCTGDYMN 734
DB      267 SGAPPT-----KPTTPVGGGULPAPAPPANPHTNLPFPPA-----LRPLNN--AS 313

QY      735 MSPVG-----DSNTSPEDCYG---PEDQHKVLT--SYSLPRSFKHTQRGEPBE 782
DB      314 ASPPGIGAPLPGLPHLPSPHMGQIGLPPGPEKGPITLAPPHSLP-----PASSGA 365

QY      783 GARHQLRLSTSSGRLLVATADSSSTSDSLGGYCGARLEPSPHP----- 833
DB      366 PAPMKEFPYSSS-----SSSAAASSSSSSSSSASPASQALPSTYHSPPTSLVS 420

QY      834 ---HCYLPPLPKV-----DTAQTNSHLAPTRLIS 862
DB      421 NQPKYQPSLPSQAVWSQGPFPFPYGRLLANSNAHGPFPSTGAQ-----S 469

QY      863 LGDPKASTLPARAEQOQOQOQPLHPPE-----PKSPGVYNIERGSDQSGYLSPVAFH 916
DB      470 TAPHPVSTHHHHHQQOQOQOQOQOQHNGNSGPPPGAFPH-----PLEGSSHH 520

QY      917 SSPSVACPSQLPAPREBEETGEYMKDLPGRBAWQSTGVEMGRLPAPPAASIC 976
DB      521 AHPYANSP-----LGLSRYPFGPAHLP 544

QY      977 RPPRAVPSRGDTMYMNSCPROSYVDTSPPAPVSYADMRTGIAEBVSLPATAAASS 1036
DB      545 PPHSQV-----SYSQAGFNGP-----PVSSSSNSS 570

QY      1037 SSNAASAP-----TGPGA-----AELAAHSSLGGPQPGMSAFTVNLSPNEN 1082
DB      571 SINSQSYPCSHSPSGPQGAHYPPPVPTVTSATLS-----TVIATVASSPAGY 622

QY      1083 QSAKVTIADPQCCRRRHSETSTSPSATRVNTVPFGAAGVAGGGSSSSSEVYKHS 1142
DB      623 KTASPPGPPYGRKAPSPGAYKTATPPGKPPSPSFRTPGPGYKGSPPGPGTFKPG 682

QY      1143 SASFENVMLRPGELGAPKPAKLGAAAGLENGLVYIDLVDKDFKQCPQCTBPPOP 1202
DB      683 SPVVGGLPFPAGPSGLPSLPPPPAASPAGPLSATQIKQPAERY-ETPESFVPAPASP 741

QY      1203 PPPPHQPLSGSSSTR 1220
DB      742 SPPEKYVDVPSHSAQGAR 759

RESULT 15
US-09-041-886-23
Sequence 23, Application US/09041886
Patent No. 6235872
GENERAL INFORMATION:
APPLICANT: Bredesen, Dale E.
APPLICANT: Rabizadeh, Shiroz
TITLE OF INVENTION: Prosopotic Peptides, Dependence
TITLE OF INVENTION: Polypeptides and Methods of Use
NUMBER OF SEQUENCES: 72
CORRESPONDENCE ADDRESSES:
ADDRESSER: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: United States
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

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;
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/041,886
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 2626
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1185 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-041-886-23

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Query Match 4.3%; Score 285; DB 3; Length 1185;
Best Local Similarity 22.1%; Pred. No. 8.8e-12;
Matches 203; Conservative 73; Mismatches 345; Indels 298; Gaps 35;

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QY 410 RRSSASVSGSPDGFISD-----EXGSP---CDFRSFRSTPDSLGHTP-PAR 457
DB 32 RAAPGCVSTSSSGKAEKSKQTAKARVEASTPKYKNGRSEISESEETNAKPKTK 91
QY 458 GEEELSNLYTCMGKGPSTLTAENGHYLSRGGNGHRCPTGLTSPALAGDEAASADL 517
DB 92 TEQELPR-----PQSPDLSDLRSLINDGSSDPR-----DIDQ 126
QY 518 DNRFRKTHSAGSPITTHQKTPSQSVASIEEYTEMMPAYPRGGSGGRLPGHNSAFV 577
DB 127 DNR-----STSPSL-----YSPGVENDSDS---SSGLSGPARPYHPPLRP 166
QY 578 P-----TRSPREGLIEMFLERRGNHR---PDSSTLHTDDGYPMSPGVAPYSGR 626
DB 167 PSPQPDSTPRQDEASERHPSVTPTGYHAPMERPTSRMQAPGAPAPPHQLYPGCTGG 226
QY 627 KSGSDYMPKPKSVAPQQLINPI--RRHQRYDPNGYMMSPSGGSPDIDGGPSSSS 684
DB 227 VLSGP--PVGPKGGGASSVGGPNGGKQHPPTPLISV-----SSSG 266
QY 685 SSNAVDSGTSYGKLTWTVGVG-----HSHVLPN-PKRPVESGGKLPCTGDM 733
DB 267 ASGAPPT-----KPTTPVGAGNLPSAPPANFHTVNLPRPDA-----LRPLNN--A 313
QY 734 NMSFVG-----DSNTSSPDCYYG---PEDQHKPVL--SYSLPRGFKTQRPGEPE 781
DB 314 SASPPGIGAPLPGLHPSPYAMGQGMGLRPGREKGPPLAPSPHSLP-----PASSS 365
QY 782 EGARHQILRLSTSGRLLYATAADSSSTSDSLGGYCGARLEPLPHH-----833
DB 366 APAPRMKFRYSSSS-----SSSAASSSSSSSSSASPFAQALPSYHSPFPPTLSV 420
QY 834 ----HQLDPLPRKV-----DTAQTNSRLARPTRL 861
DB 421 SNORPKTTPSLPSQAVMSQGRPPRPYGRLLANSNAHPRPFPSTGAQ-----469
QY 862 SLGDPKASTLPRAEQOQOQOPLNHPPE-----PKSPGEYVNIERFGSDGYLSGVAF 915
DB 470 STAHPRVSTHHNHQOQOQOQOQOQHNGNSGRRPRGAFH-----PLEGSSH 520
QY 916 HSSPSVCSQQLQAPREETGTEYVKMDLGPGRRAAQESTGVENGRIGRAPPAASI 975
DB 521 HAHYAMSPS-----LGSILRPYFPGPAHL 544
QY 976 CRPTFRAVSSRGDYTWQMSCFRQSYVDTSPAPVSYADYRTGIAAEVSLPRATMAAS 1035
DB 545 PPHSQY-----SYGQAGNCP-----PVSSSSNS 570

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QY 1036 SSSASASP-----TGPGA-----AELAAHSLGGPQGGMSAFTRYNLSPNR 1081
DB 571 SSTGSGSYPCSHSPSQGPQAGAPYFPFPVPTVTISSATLS-----TVIATVASSPAG 622
QY 1082 NOSAKVIRADPOGCRHRHSETFSPSATRVGNVTFGAGAAVGGGSGSSSEEDVKRH 1141
DB 623 YKTASPPGPPPYGKRAASPGAKYKATIPGKPSPPSFRGTGPPGKGTSPAPAGCTFKP 682
QY 1142 SSASFENVMLRPGELGAPKPEPAKLGAGAGLENGLNTIDLVKDFKQCPQECTPEPQP 1201
DB 683 GSPVVGCPLPAPGSPGLPPLPPPAAPASGPLSATQIKQBPAAEY-ETPESFVPPARS 741
QY 1202 PPPPPHQPLGSGSSSTR 1220
DB 742 PSPPKYVDVFSHASQAR 760

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Search completed: June 30, 2004, 14:06:13
Job time : 28 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: June 30, 2004, 14:04:42 ; Search time 54 Seconds

(without alignments)
6502.222 Million cell updates/sec

Title: US-09-903-063-5

Perfect score: 6593
Sequence: 1 MASPPESDGSIVRKVIGYLR.....SEDLAIVASISFOKPEDRQ 1242

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1166195 seqs, 282705291 residues

Total number of hits satisfying chosen parameters: 1166195

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database: Published Applications AA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6593	100.0	1242	9	US-09-903-248-5
2	6593	100.0	1242	9	US-09-859-604-5
3	6593	100.0	1242	9	US-09-903-063-5
4	6593	100.0	1242	9	US-09-903-216-5
5	6593	100.0	1242	9	US-09-903-199-5
6	6593	100.0	1242	9	US-09-903-023-5
7	6593	100.0	1242	10	US-09-436-184-5
8	6593	100.0	1242	13	US-10-085-027-1
9	6593	100.0	1242	16	US-10-694-874-1
10	6593	100.0	1242	15	US-10-334-143-10
11	5804.5	88.0	1231	16	US-10-694-874-3
12	1976.5	30.0	1324	16	US-10-694-874-2
13	1942.5	29.5	1278	12	US-10-087-192-708
14	1925.5	29.2	1321	16	US-10-694-874-4
15	1612.5	24.5	1139	12	US-10-087-192-705

16	1006.5	15.3	1257	16	US-10-408-765A-441	Sequence 441, App
17	590.5	9.0	159	13	US-10-085-027-5	Sequence 5, Appl
18	586	8.9	113	10	US-09-922-226-123	Sequence 123, App
19	579	8.8	114	12	US-09-731-660A-2	Sequence 2, Appl
20	538	8.2	105	14	US-10-192-181-5	Sequence 5, Appl
21	298	4.5	2263	16	US-10-408-765A-2231	Sequence 2231, Ap
22	293.5	4.5	1592	12	US-10-231-956A-312	Sequence 319, App
23	287	4.4	1189	16	US-10-408-765A-2272	Sequence 2272, Ap
24	284	4.3	1744	13	US-10-108-605-25	Sequence 36, Appl
25	274.5	4.2	1211	12	US-10-363-616-366	Sequence 356, App
26	273.5	4.1	1633	14	US-10-029-386-33090	Sequence 33090, A
27	273.5	4.1	2303	12	US-10-267-802-371	Sequence 371, App
28	273	4.1	2161	16	US-10-408-765A-1283	Sequence 1283, Ap
29	269.5	4.1	2011	14	US-10-176-847-56	Sequence 86, Appl
30	269	4.1	2803	12	US-10-415-187-5	Sequence 5, Appl
31	267	4.0	1665	15	US-10-295-027-60	Sequence 60, Appl
32	267	4.0	1665	15	US-10-295-027-1176	Sequence 1176, Ap
33	266.5	4.0	2038	16	US-10-433-794-18	Sequence 18, Appl
34	266.5	4.0	2092	12	US-10-042-865-79	Sequence 79, Appl
35	266.5	4.0	2092	12	US-10-377-035-18	Sequence 18, Appl
36	266.5	4.0	2092	16	US-10-408-765A-1967	Sequence 1967, Ap
37	266.5	4.0	2137	12	US-10-042-865-81	Sequence 81, Appl
38	266.5	4.0	2429	12	US-10-362-892-8	Sequence 8, Appl
39	266.5	4.0	2429	12	US-10-377-035-17	Sequence 17, Appl
40	266.5	4.0	2429	15	US-10-288-798-8	Sequence 8, Appl
41	266.5	4.0	2432	12	US-10-112-944-359	Sequence 359, App
42	266.5	4.0	2545	12	US-10-042-865-12	Sequence 12, Appl
43	263.5	4.0	2766	14	US-09-964-856-62	Sequence 62, Appl
44	263.5	4.0	841	12	US-10-029-386-32014	Sequence 32014, A
45	263.5	4.0	3149	16	US-10-408-765A-2326	Sequence 2326, Ap

ALIGNMENTS

US-09-903-248-5	Application US/09903248
Sequence 5, Appl	
Parent No. US20020102263A1	
GENERAL INFORMATION:	
APPLICANT: Wands, Jack R.	
APPLICANT: de la Monte, Suzanne M.	
APPLICANT: Ince, Nedim	
APPLICANT: Carlson, Rolf I.	
TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS	
FILE REFERENCE: 21486-032 DIVS	
CURRENT APPLICATION NUMBER: US/09/903,248	
CURRENT FILING DATE: 2001-07-11	
PRIOR APPLICATION NUMBER: 09/436,184	
PRIOR FILING DATE: 1999-11-08	
NUMBER OF SEQ ID NOS: 9	
SOFTWARE: PatentIn Ver. 2.1	
SEQ ID NO 5	
LENGTH: 1242	
TYPE: PRT	
ORGANISM: Homo sapiens	
US-09-903-248-5	
Query Match	100.0%; Score 6593; DB 9; Length 1242;
Best Local Similarity	100.0%; Pred. No. 0;
Matches 1242; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
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QY	61 KASIPLESCEFNKADSKNKLVALYTRDEHFALADSEABODSWYQALLQHNRAKGH 120
DB	61 KASIPLESCEFNKADSKNKLVALYTRDEHFALADSEABODSWYQALLQHNRAKGH 120
QY	121 HDGAALGAGGGGSCSSGSGIENGEDLSYGVDPGSAFKRWCVILIKPKGLQTKLI 180
DB	121 HDGAALGAGGGGSCSSGSGIENGEDLSYGVDPGSAFKRWCVILIKPKGLQTKLI 180

181 GYRLCLTSKTIISFVKLNSEAAAVYLQLMNIRCGHSENFIEVGRSAVTGPEEFMNOV 240
181 GYRLCLTSKTIISFVKLNSEAAAVYLQLMNIRCGHSENFIEVGRSAVTGPEEFMNOV 240
241 DDSVVAQNMHEITILEAMRAMSDEFPRRSKSSQSSNSCNPIISVPLRRHLNPPPSQVGLT 300
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301 RRSRTESITATSPASMGKPGSFVRASDGEGTMSRPASVDSPSPSTNRTHAHRH 360
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361 GSARLHPPLNHSRSLPMPASRCSPSATSPVLSLSSSTSGHGSTSDCLFPRRSASVSGSP 420
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421 SDGFTISDDEYSGSPCDPRSSFRSVPDLSLHTPPARGBEELSNYICMGKPGSTLTAPN 480
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481 GHYILSRGNGHRCPTGTGLGTSPALAGDEAASADLDRFRKTHSAGTSPITTHOKTP 540
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541 SSSSVASISIEYTEMMPAYPPGGSGGRLPGHHSAPVPTRSYPBEGLEMPLEERGGHHR 600
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661 GYMMWSPGGGSPDIDGGPSSSSSSSNAPVSGTSGYGLMTNGVGHSHVLPHPKPYES 720
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721 SSGKLLPCTGDMNNSPVGDSTSSPSDCYIGEPDPOHKAVALSYLSLFRSKHQRPEEP 780
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781 BEGAHGHRLSTSSGRLLYAATADSSSTSSDSLGCGYCGARLEPSLPHPHQVQLPH 840
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841 LPRKVDIAQNTSRILAPTRLSLGPBKASTLPRABEQOQOQOPLHHPPEPKSPGBYVNTIE 900
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901 FGSDDSGYLSCGFVAHFSSPSVPCPSQLOPAPREBETGEBYWKMDLGGRAAAMESTGV 960
901 FGSDDSGYLSCGFVAHFSSPSVPCPSQLOPAPREBETGEBYWKMDLGGRAAAMESTGV 960
961 EHGRIAPAPGAASICRPTRAVSSRGDMYMQSCPROSYDTPSPAAVSYADNRGTIA 1020
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1021 ABEVSLPRAVMAAASSSASASPTGCGAELAHSSLLGGPQPGMSAFTRVNTLSPN 1080
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1081 RNQSAKAVIRADPOGCRHRSSTFSSTPSATRVGNTVPFGAGAAVGGGSSSSSEDEYKR 1140
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1141 HSSAFENWMLRPGELGAPKEPAKLCGAGGLJENGLVYIDLVDKDFKQCPQOECTPBPQ 1200
1201 PPPPPPHOPLGSGSSSTRSSEDLISAVASISFQKQBPEDRO 1242
1201 PPPPPPHOPLGSGSSSTRSSEDLISAVASISFQKQBPEDRO 1242
1201 PPPPPPHOPLGSGSSSTRSSEDLISAVASISFQKQBPEDRO 1242

RESULT 2
US-09-859-604-5
; Sequence 5, Application US/09859604
; Patent No. US20020110559A1
; GENERAL INFORMATION:
; APPLICANT: Mandes, Jack R.
; APPLICANT: de la Monte, Suzanne M
; APPLICANT: Deutch, Alan H
; APPLICANT: Chabari, Hossein A
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
; FILE REFERENCE: 21486-032 CIP
; CURRENT FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: 09/436,184
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1242
; TYPE: PR1
; ORGANISM: Homo sapiens
US-09-859-604-5
Query Match 100.0%; Score 6593; DB 9; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 MASPPESDPSDVRAKGYLRKPKSMKRRFFVRAASEAGPARLEYENKTKRHKSAP 60
1 MASPPESDPSDVRAKGYLRKPKSMKRRFFVRAASEAGPARLEYENKTKRHKSAP 60
61 KRSLPLESCFNINRADSKNKHVALYTTDEHPALIADEBAQDSYQALLQLHRAKH 120
61 KRSLPLESCFNINRADSKNKHVALYTTDEHPALIADEBAQDSYQALLQLHRAKH 120
121 HDGAALGAGGGGSGSGSGGAGEGDSYGDVPPGPAFKWQVTLKPKJGOTKLI 180
121 HDGAALGAGGGGSGSGSGGAGEGDSYGDVPPGPAFKWQVTLKPKJGOTKLI 180
181 GYRLCLTSKTIISFVKLNSEAAAVYLQLMNIRCGHSENFIEVGRSAVTGPEEFMNOV 240
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241 DDSVVAQNMHEITILEAMRAMSDEFPRRSKSSQSSNSCNPIISVPLRRHLNPPPSQVGLT 300
241 DDSVVAQNMHEITILEAMRAMSDEFPRRSKSSQSSNSCNPIISVPLRRHLNPPPSQVGLT 300
301 RRSRTESITATSPASMGKPGSFVRASDGEGTMSRPASVDSPSPSTNRTHAHRH 360
301 RRSRTESITATSPASMGKPGSFVRASDGEGTMSRPASVDSPSPSTNRTHAHRH 360
361 GSARLHPPLNHSRSLPMPASRCSPSATSPVLSLSSSTSGHGSTSDCLFPRRSASVSGSP 420
361 GSARLHPPLNHSRSLPMPASRCSPSATSPVLSLSSSTSGHGSTSDCLFPRRSASVSGSP 420
421 SDGFTISDDEYSGSPCDPRSSFRSVPDLSLHTPPARGBEELSNYICMGKPGSTLTAPN 480
421 SDGFTISDDEYSGSPCDPRSSFRSVPDLSLHTPPARGBEELSNYICMGKPGSTLTAPN 480
481 GHYILSRGNGHRCPTGTGLGTSPALAGDEAASADLDRFRKTHSAGTSPITTHOKTP 540
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541 SSSSVASISIEYTEMMPAYPPGGSGGRLPGHHSAPVPTRSYPBEGLEMPLEERGGHHR 600
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601 PDSSTLHTDDGYNMPSGVAPVPYSGRKSGDYMPSPKSVASAPQOIIINPIRRHORVDN 660
601 PDSSTLHTDDGYNMPSGVAPVPYSGRKSGDYMPSPKSVASAPQOIIINPIRRHORVDN 660
661 GYMMWSPGGGSPDIDGGPSSSSSSSNAPVSGTSGYGLMTNGVGHSHVLPHPKPYES 720

Db 661 GYMMSPSGCSPDGGGSSSSSSNAVSGTSGKLTMTNGVGHSHVLPHPKRPVES 720
Qy 721 SGKLLPCTGDYNNMNSVSDNTSSPSDCYYPEDPQHKVLSYLSLPRFKTQRPGE 780
Db 721 SGGKLLPCTGDYNNMNSVSDNTSSPSDCYYPEDPQHKVLSYLSLPRFKTQRPGE 780
Qy 781 BEGARHQLRLSTSSGRLLYAATADSSSTSSDSLGCGYCGARLEPSLPHPHQVLOPH 840
Db 781 BEGARHQLRLSTSSGRLLYAATADSSSTSSDSLGCGYCGARLEPSLPHPHQVLOPH 840
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Db 841 LPRKVDTAQNTSLARPTLSLGDPAKSTLPRAREQQOQOQPLHPPEKSPGEYVNI 900
Qy 901 FGSDQSGYLSGPVAFHSPSVRCPSQLQAPAREEETGEYMKDLAGGRAMQESTGV 960
Db 901 FGSDQSGYLSGPVAFHSPSVRCPSQLQAPAREEETGEYMKDLAGGRAMQESTGV 960
Qy 961 EMGRIGPAPGAASICRPTAIVPSRSDYTMQMSCRQSYVDTSPPAAPVSYADMRTGIA 1020
Db 961 EMGRIGPAPGAASICRPTAIVPSRSDYTMQMSCRQSYVDTSPPAAPVSYADMRTGIA 1020
Qy 1021 AEEVSLPRATMAAASSSSAASASPTGPOGAELAAHSSLLGPGGMSAFTRVNLSPN 1080
Db 1021 AEEVSLPRATMAAASSSSAASASPTGPOGAELAAHSSLLGPGGMSAFTRVNLSPN 1080
Qy 1081 RNQSAKYIRADPOGCRHRHSESTSPSATRVGNITVPFGAAGVGGGSSSSSEVDKR 1140
Db 1081 RNQSAKYIRADPOGCRHRHSESTSPSATRVGNITVPFGAAGVGGGSSSSSEVDKR 1140
Qy 1141 HSSASFENWMLRPGELGAPKEPAKLCGAAGLENGLNYIDLVDVDFKQCPQECTPEPQ 1200
Db 1141 HSSASFENWMLRPGELGAPKEPAKLCGAAGLENGLNYIDLVDVDFKQCPQECTPEPQ 1200
Qy 1201 PPPPPPHQPLGSGESSSTRSSSHDLASVASISFOKQPEDRQ 1242
Db 1201 PPPPPPHQPLGSGESSSTRSSSHDLASVASISFOKQPEDRQ 1242

RESULT 3
US-09-903-063-5
; Sequence 5, Application US/09903063
; Patent No. US20020114810A1
; GENERAL INFORMATION:
; APPLICANT: Wands, Jack R.
; APPLICANT: de la Monte, Suzanne M.
; APPLICANT: Ince, Nedim
; APPLICANT: Carlson, Rolf I.
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
; FILE REFERENCE: 21486-032 DIV3
; CURRENT APPLICATION NUMBER: US/09/903,063
; PRIOR FILING DATE: 2001-10-11
; PRIOR APPLICATION NUMBER: 09/436,184
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1242
; TYPE: PRN
; ORGANISM: Homo sapiens
US-09-903-063-5

Query Match 100.0%; Score 6593; DB 9; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASPPEDGSDVRAKVGYLKKPKSMKRFVLRRAASAGAPARLEYENKRRKSSAP 60
Db 1 MASPPEDGSDVRAKVGYLKKPKSMKRFVLRRAASAGAPARLEYENKRRKSSAP 60
Qy 61 KRSLPESCFNINKRADSKNHLVALYTRDEHFAIADSEADODSWYQALLQLHNRKAGH 120
Db 61 KRSLPESCFNINKRADSKNHLVALYTRDEHFAIADSEADODSWYQALLQLHNRKAGH 120

Db 61 KRSLPESCFNINKRADSKNHLVALYTRDEHFAIADSEADODSWYQALLQLHNRKAGH 120
Qy 121 HDGAALALAGAGGCGCGSSGCLGEGEDLSYGDVPPGPAFAKXWQVILKPKGLQTKNLI 180
Db 121 HDGAALALAGAGGCGCGSSGCLGEGEDLSYGDVPPGPAFAKXWQVILKPKGLQTKNLI 180
Qy 181 GYRLCLTSKTIISFYKLNSEBAAYVLOLMNTRCGHSENFPEIYGRSAVTGPGEFMQV 240
Db 181 GYRLCLTSKTIISFYKLNSEBAAYVLOLMNTRCGHSENFPEIYGRSAVTGPGEFMQV 240
Qy 241 DDSVYAQNMHEFTLEAMAMSDERPRKSGSSSNCSNPISVPLRHHNLNPPSQGLT 300
Db 241 DDSVYAQNMHEFTLEAMAMSDERPRKSGSSSNCSNPISVPLRHHNLNPPSQGLT 300
Qy 301 RRSRTESITATSPASMVGKPKGSFRVRAASDEGTMSPASVDGS PVSPTNRTHAHR 360
Db 301 RRSRTESITATSPASMVGKPKGSFRVRAASDEGTMSPASVDGS PVSPTNRTHAHR 360
Qy 361 GSARLHPPLNHSRSTIEMPARCSREBATS PVSLSSTSGASTDCLFPRSSASVSGSP 420
Db 361 GSARLHPPLNHSRSTIEMPARCSREBATS PVSLSSTSGASTDCLFPRSSASVSGSP 420
Qy 421 SDGFTISDEYSGSPCDFRASSFRSVTPDGLHTPPARCEBELSNYICMGKGPSTLAPN 480
Db 421 SDGFTISDEYSGSPCDFRASSFRSVTPDGLHTPPARCEBELSNYICMGKGPSTLAPN 480
Qy 481 GHYILSRGNGHRCPTGTGLCTSPALAGDEAASADLNDNRKRTHTSAGTSPITTHOKTP 540
Db 481 GHYILSRGNGHRCPTGTGLCTSPALAGDEAASADLNDNRKRTHTSAGTSPITTHOKTP 540
Qy 541 SSSVASTIEEYTEMMPAYPPGSGSGRLPGHRSAPVTRSYPEEGLEMEHLERGGHR 600
Db 541 SSSVASTIEEYTEMMPAYPPGSGSGRLPGHRSAPVTRSYPEEGLEMEHLERGGHR 600
Qy 601 PDSSTLHTDDGYMPSPCVAPVPGRKSGDGYMSPKSVAPQIINPIRRHQVDPN 660
Db 601 PDSSTLHTDDGYMPSPCVAPVPGRKSGDGYMSPKSVAPQIINPIRRHQVDPN 660
Qy 661 GYMMSPSGCSPDGGGSSSSSSNAVPSGTYGKLTMTNGVGHSHVLPHPKRPVES 720
Db 661 GYMMSPSGCSPDGGGSSSSSSNAVPSGTYGKLTMTNGVGHSHVLPHPKRPVES 720
Qy 721 SGGKLLPCTGDYNNMNSVSDNTSSPSDCYYPEDPQHKVLSYLSLPRFKTQRPGE 780
Db 721 SGGKLLPCTGDYNNMNSVSDNTSSPSDCYYPEDPQHKVLSYLSLPRFKTQRPGE 780
Qy 781 BEGARHQLRLSTSSGRLLYAATADSSSTSSDSLGCGYCGARLEPSLPHPHQVLOPH 840
Db 781 BEGARHQLRLSTSSGRLLYAATADSSSTSSDSLGCGYCGARLEPSLPHPHQVLOPH 840
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Db 841 LPRKVDTAQNTSLARPTLSLGDPAKSTLPRAREQQOQOQPLHPPEKSPGEYVNI 900
Qy 901 FGSDQSGYLSGPVAFHSPSVRCPSQLQAPAREEETGEYMKDLAGGRAMQESTGV 960
Db 901 FGSDQSGYLSGPVAFHSPSVRCPSQLQAPAREEETGEYMKDLAGGRAMQESTGV 960
Qy 961 EMGRIGPAPGAASICRPTAIVPSRSDYTMQMSCRQSYVDTSPPAAPVSYADMRTGIA 1020
Db 961 EMGRIGPAPGAASICRPTAIVPSRSDYTMQMSCRQSYVDTSPPAAPVSYADMRTGIA 1020
Qy 1021 AEEVSLPRATMAAASSSSAASASPTGPOGAELAAHSSLLGPGGMSAFTRVNLSPN 1080
Db 1021 AEEVSLPRATMAAASSSSAASASPTGPOGAELAAHSSLLGPGGMSAFTRVNLSPN 1080
Qy 1081 RNQSAKYIRADPOGCRHRHSESTSPSATRVGNITVPFGAAGVGGGSSSSSEVDKR 1140
Db 1081 RNQSAKYIRADPOGCRHRHSESTSPSATRVGNITVPFGAAGVGGGSSSSSEVDKR 1140
Qy 1141 HSSASFENWMLRPGELGAPKEPAKLCGAAGLENGLNYIDLVDVDFKQCPQECTPEPQ 1200
Db 1141 HSSASFENWMLRPGELGAPKEPAKLCGAAGLENGLNYIDLVDVDFKQCPQECTPEPQ 1200

QY 1201 PPPPPHOPLOGSGSSSTRSSEEDLSAYASISFOKQPEDRQ 1242
 Db 1201 PPPPPHOPLOGSGSSSTRSSEEDLSAYASISFOKQPEDRQ 1242

RESULT 4
 US-09-903-216-5
 ; Sequence 5, Application US/09903216
 ; Patent No. US2002011481A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Mands, Jack R.
 ; APPLICANT: de la Monte, Suzanne M.
 ; APPLICANT: Ince, Nedim
 ; APPLICANT: Carlson, Rolf I.
 ; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
 ; FILE REFERENCE: 21486-032 Div2
 ; CURRENT APPLICATION NUMBER: US/09/903,216
 ; CURRENT FILING DATE: 2001-07-11
 ; PRIOR APPLICATION NUMBER: 09/436,184
 ; PRIOR FILING DATE: 1999-11-08
 ; NUMBER OF SEQ ID NOS: 9
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 5
 ; LENGTH: 1242
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-903-216-5

Query Match 100.0%; Score 6593; DB 9; Length 1242;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASPPSDGFDVRKVGYLARKPKSMHKKFFVLRAASEAGPARLEYENKKMRKKSAP 60
 Db 1 MASPPSDGFDVRKVGYLARKPKSMHKKFFVLRAASEAGPARLEYENKKMRKKSAP 60
 QY 61 KRSIPLESFCFNINKRADSKXKHLVALYTRDEHPALAUSEADODSWYQALQLNHRAGH 120
 Db 61 KRSIPLESFCFNINKRADSKXKHLVALYTRDEHPALAUSEADODSWYQALQLNHRAGH 120
 QY 121 HUGAALGAGGGGSSSSSSGIGEBAGEDLSYGDVPPGPAFKVWYILKPKLQGTXXLI 180
 Db 121 HUGAALGAGGGGSSSSSSGIGEBAGEDLSYGDVPPGPAFKVWYILKPKLQGTXXLI 180
 QY 181 GYRLCTISKTISFVLNSEEAAVVLQNLNIRRCGSENFETIEYGRSAVTGPGEFMMQV 240
 Db 181 GYRLCTISKTISFVLNSEEAAVVLQNLNIRRCGSENFETIEYGRSAVTGPGEFMMQV 240
 QY 241 DDSVAQNNHETILLEMRAMSDFFPRRSKSSSSSNCSNDSIYPLRRHINNPPSQVGLT 300
 Db 241 DDSVAQNNHETILLEMRAMSDFFPRRSKSSSSSNCSNDSIYPLRRHINNPPSQVGLT 300
 QY 301 RRSRTEITATSPASVWGKPGSPFRYRASDDEGTMSRASVDGSPVSPSTRTTAHHR 360
 Db 301 RRSRTEITATSPASVWGKPGSPFRYRASDDEGTMSRASVDGSPVSPSTRTTAHHR 360
 QY 361 GSARLHPPLNHSRSTIMPARSCSPKATSPVSLSSSTSGHGSTDCLPPRRSASVSGSP 420
 Db 361 GSARLHPPLNHSRSTIMPARSCSPKATSPVSLSSSTSGHGSTDCLPPRRSASVSGSP 420
 QY 421 SDGGFTSDGYSSPCDFRSFRSVTPDLSGHTPPRAGEEELSNYICMGXGKPSLTLPN 480
 Db 421 SDGGFTSDGYSSPCDFRSFRSVTPDLSGHTPPRAGEEELSNYICMGXGKPSLTLPN 480
 QY 481 GHYILSRGNHRCCTPGLGTSPALAGDEAASADLDNRFEKRTISAQSPITTHQXTP 540
 Db 481 GHYILSRGNHRCCTPGLGTSPALAGDEAASADLDNRFEKRTISAQSPITTHQXTP 540
 QY 541 SSSVASIIEYTEMMPAYPPGGSGRLGHRHSAFVPRSVDEGLMHPLERRGGHR 600
 Db 541 SSSVASIIEYTEMMPAYPPGGSGRLGHRHSAFVPRSVDEGLMHPLERRGGHR 600

QY 601 PDSSTLHTDDGYMPSBGVAVPVSGRKSGSDGYMPSPKSYASPOQIINPIRRHPQVRDPN 660
 Db 601 PDSSTLHTDDGYMPSBGVAVPVSGRKSGSDGYMPSPKSYASPOQIINPIRRHPQVRDPN 660
 QY 661 GYMMSPSGGSPDIDGGPSSSSSSSNVAVSGTSGYGLATNGVGHHSHTLPHPKPVES 720
 Db 661 GYMMSPSGGSPDIDGGPSSSSSSSNVAVSGTSGYGLATNGVGHHSHTLPHPKPVES 720
 QY 721 SGGLLPCTGDYMMSPVGDNSNTSPSDCYGPEDPQHKVLSYSLPRSFKTORPGE 780
 Db 721 SGGLLPCTGDYMMSPVGDNSNTSPSDCYGPEDPQHKVLSYSLPRSFKTORPGE 780
 QY 781 EEGARHQLRLSTSSGRLYAATPADSSSTSSDSJGGYCGARLEPLPHPHOYLQPH 840
 Db 781 EEGARHQLRLSTSSGRLYAATPADSSSTSSDSJGGYCGARLEPLPHPHOYLQPH 840
 QY 841 LPRKVDTAQTNRSRLAPRTLSIGDPKASTLPRARQQQQQQLLHPPEKSGEYVNI 900
 Db 841 LPRKVDTAQTNRSRLAPRTLSIGDPKASTLPRARQQQQQQLLHPPEKSGEYVNI 900
 QY 901 FGSDQSGYLSGPVAFHSSPSVRCPQLOPAPREBEETGTEBYMXXDLGPGRRAMQESTGV 960
 Db 901 FGSDQSGYLSGPVAFHSSPSVRCPQLOPAPREBEETGTEBYMXXDLGPGRRAMQESTGV 960
 QY 961 EMGRLGAPPGAASTGPTPAVPSRQDVTMOMSCPROSYNDTSRAAPSVADMRTGTA 1020
 Db 961 EMGRLGAPPGAASTGPTPAVPSRQDVTMOMSCPROSYNDTSRAAPSVADMRTGTA 1020
 QY 1021 AEEVSLPRATMAAASSSAAASAPFTGPOGAELAAHSLLGPGGEGMSAPTRVNLSPN 1080
 Db 1021 AEEVSLPRATMAAASSSAAASAPFTGPOGAELAAHSLLGPGGEGMSAPTRVNLSPN 1080
 QY 1081 RNSGAKYIRADPOGCRRRHSEFTSPSTRGNTYVPRGAGAAVGGGGSSSSSDVXR 1140
 Db 1081 RNSGAKYIRADPOGCRRRHSEFTSPSTRGNTYVPRGAGAAVGGGGSSSSSDVXR 1140
 QY 1141 HSSAFENWVLRPGEJGAPKEPAKLGAAAGLENGLNTDLDLVNDFOCPOECTPEPQ 1200
 Db 1141 HSSAFENWVLRPGEJGAPKEPAKLGAAAGLENGLNTDLDLVNDFOCPOECTPEPQ 1200
 QY 1201 PPPPPHOPLOGSGSSSTRSSEEDLSAYASISFOKQPEDRQ 1242
 Db 1201 PPPPPHOPLOGSGSSSTRSSEEDLSAYASISFOKQPEDRQ 1242

RESULT 5
 US-09-903-199-5
 ; Sequence 5, Application US/09903199
 ; Patent No. US20020122802A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Mands, Jack R.
 ; APPLICANT: de la Monte, Suzanne M.
 ; APPLICANT: Ince, Nedim
 ; APPLICANT: Carlson, Rolf I.
 ; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
 ; FILE REFERENCE: 21486-032 Div4
 ; CURRENT APPLICATION NUMBER: US/09/903,199
 ; CURRENT FILING DATE: 2001-07-11
 ; PRIOR APPLICATION NUMBER: 09/436,184
 ; PRIOR FILING DATE: 1999-11-08
 ; NUMBER OF SEQ ID NOS: 9
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 5
 ; LENGTH: 1242
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-903-199-5

Query Match 100.0%; Score 6593; DB 9; Length 1242;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASPPSDGFDVRKVGYLARKPKSMHKKFFVLRAASEAGPARLEYENKKMRKKSAP 60

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Db KRSIPLESCFNINRKADSKNKHLYALYTRDEHFAIADSEABODSWYQALLQHNRAKH 120
Qy HDGAALGAGGGGSCGSSGLGAGEBLSYGDVPPGPAKEWQVILKPKGLQOTKLI 180
Db HDGAALGAGGGGSCGSSGLGAGEBLSYGDVPPGPAKEWQVILKPKGLQOTKLI 180
Qy GYIRLCITSKTISFYKLNSEAAVVLQIMNIRRCGSENFPIEVGSAVTGGEFMWQV 240
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Db DSVVAQNMHEITILEAMRANSDFRPRSKSSQSSNCNPISVPLRRHLLNPPSOVGLT 300
Qy RRSRTESITATSPASWVGKPGSFRVPAASDGEITMSRPASVDGSPVSTNTHAHRH 360
Db RRSRTESITATSPASWVGKPGSFRVPAASDGEITMSRPASVDGSPVSTNTHAHRH 360
Qy GSARLHPPLNHSRSIEMPARCSPSATSPVLSSSSTSGHGSTDCLPFRSSASVSGSP 420
Db GSARLHPPLNHSRSIEMPARCSPSATSPVLSSSSTSGHGSTDCLPFRSSASVSGSP 420
Qy SDGCFISSDEYSSPCDFRSSFVSVPDLSIGHTPPARGEEELSNYICMGKGPSTLTAPN 480
Db SDGCFISSDEYSSPCDFRSSFVSVPDLSIGHTPPARGEEELSNYICMGKGPSTLTAPN 480
Qy GHYILSRGNGHRCPTGTGLGTSPALAGDEAASADLDNRRKRTSAGTSPITTHOKTP 540
Db GHYILSRGNGHRCPTGTGLGTSPALAGDEAASADLDNRRKRTSAGTSPITTHOKTP 540
Qy SSGSVASIEEYTEMPPAYPPGGSGGRLPGHRSAFVPTRSYPEBGLIEMHPLERRGHR 600
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Qy GYMMPSPSGCSPDIGGPPSSSSSSSNAVPSGTSYGLMTNGVGHSHVLPHPKRPVSS 720
Db GYMMPSPSGCSPDIGGPPSSSSSSSNAVPSGTSYGLMTNGVGHSHVLPHPKRPVSS 720
Qy SSGKLLPCTGDDYMMMSVGDSSNTSSPBDCTYGPEDPOHKEVLSYSLPSSFKATQPPGP 780
Db SSGKLLPCTGDDYMMMSVGDSSNTSSPBDCTYGPEDPOHKEVLSYSLPSSFKATQPPGP 780
Qy EEGARHQLRLSTSSGRLLYAATADSSSTSSDSIGGYCGARLPSLPHPHQLQPH 840
Db EEGARHQLRLSTSSGRLLYAATADSSSTSSDSIGGYCGARLPSLPHPHQLQPH 840
Qy LPRKVTDAQTNSRLAPRTLSTLGDPRKASTLPPAREQQOQOQPLHPPEKSPGEVNI 900
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Qy FGSDQSGYLSGPAFHSBSPVRCPQOLAPAREEETGTEYMKMDJGPGRRAMQSGTGV 960
Db FGSDQSGYLSGPAFHSBSPVRCPQOLAPAREEETGTEYMKMDJGPGRRAMQSGTGV 960
Qy EMGRGLPAPGAASICPTFAVSSRDYMTQMOCSPRGYVDTSSPAAPVYADMGTGIA 1020
Db EMGRGLPAPGAASICPTFAVSSRDYMTQMOCSPRGYVDTSSPAAPVYADMGTGIA 1020
Qy AEEVSLPRATMAAASSASASPTGQGAELAAHSLLGPGGCGGMSAFTRVVLSN 1080
Db AEEVSLPRATMAAASSASASPTGQGAELAAHSLLGPGGCGGMSAFTRVVLSN 1080
Qy RNSAKVIRADPOGCRHRHSETFSTPSATRVGNVTFPGAAGAVGGGGSSSSSDVVR 1140
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Db 1081 RNSAKVIRADPOGCRHRHSETFSTPSATRVGNVTFPGAAGAVGGGGSSSSSDVVR 1140
Qy 1141 HSSAFENVMLRPGELGAPKEPAKLGAGAGLNGNLYIDLDVXQFKQCPGCTBEPQ 1200
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Db 1201 PPPPPHPQPLGSGSSSTRSSSEDLISAYASISFOKPEDRQ 1242

RESULT 6
US-09-903-023-5
/ Sequence 5, Application US/09903023
/ Patent No. US20020146421A1
/ GENERAL INFORMATION:
/ APPLICANT: Wands, Jack R.
/ APPLICANT: de la Monte, Suzanne M.
/ APPLICANT: Ince, Nedim
/ APPLICANT: Carlsson, Rolf I.
/ TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
/ FILE REFERENCE: 21486-012 DIV1
/ CURRENT APPLICATION NUMBER: US/09/903, 023
/ PRIOR FILING DATE: 2001-10-11
/ PRIOR FILING DATE: 1999-11-08
/ NUMBER OF SEQ ID NOS: 9
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 5
/ LENGTH: 1242
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-903-023-5

Query Match 100.0%; Score 6593; DB 9; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MASPPSDGSDVRKGVLRKPKSMHRRFVLRASAEAGGPARLEYENKKMRHKSAP 60
Db 1 MASPPSDGSDVRKGVLRKPKSMHRRFVLRASAEAGGPARLEYENKKMRHKSAP 60
Qy KRSIPLESCFNINRKADSKNKHLYALYTRDEHFAIADSEABODSWYQALLQHNRAKH 120
Db KRSIPLESCFNINRKADSKNKHLYALYTRDEHFAIADSEABODSWYQALLQHNRAKH 120
Qy HDGAALGAGGGGSCGSSGLGAGEBLSYGDVPPGPAKEWQVILKPKGLQOTKLI 180
Db HDGAALGAGGGGSCGSSGLGAGEBLSYGDVPPGPAKEWQVILKPKGLQOTKLI 180
Qy GYIRLCITSKTISFYKLNSEAAVVLQIMNIRRCGSENFPIEVGSAVTGGEFMWQV 240
Db GYIRLCITSKTISFYKLNSEAAVVLQIMNIRRCGSENFPIEVGSAVTGGEFMWQV 240
Qy DSVVAQNMHEITILEAMRANSDFRPRSKSSQSSNCNPISVPLRRHLLNPPSOVGLT 300
Db DSVVAQNMHEITILEAMRANSDFRPRSKSSQSSNCNPISVPLRRHLLNPPSOVGLT 300
Qy RRSRTESITATSPASWVGKPGSFRVPAASDGEITMSRPASVDGSPVSTNTHAHRH 360
Db RRSRTESITATSPASWVGKPGSFRVPAASDGEITMSRPASVDGSPVSTNTHAHRH 360
Qy GSARLHPPLNHSRSIEMPARCSPSATSPVLSSSSTSGHGSTDCLPFRSSASVSGSP 420
Db GSARLHPPLNHSRSIEMPARCSPSATSPVLSSSSTSGHGSTDCLPFRSSASVSGSP 420
Qy SDGCFISSDEYSSPCDFRSSFVSVPDLSIGHTPPARGEEELSNYICMGKGPSTLTAPN 480
Db SDGCFISSDEYSSPCDFRSSFVSVPDLSIGHTPPARGEEELSNYICMGKGPSTLTAPN 480
Qy GHYILSRGNGHRCPTGTGLGTSPALAGDEAASADLDNRRKRTSAGTSPITTHOKTP 540
Db GHYILSRGNGHRCPTGTGLGTSPALAGDEAASADLDNRRKRTSAGTSPITTHOKTP 540
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QY 541 SSSVASIEEYTEMMPAYPPGGSGGRLPGHRSAFVPTRSYEBGLEHMPLERRGGHR 600
 Db 541 SSSVASIEEYTEMMPAYPPGGSGGRLPGHRSAFVPTRSYEBGLEHMPLERRGGHR 600
 QY 601 PDSSTLHTDDGYMMSGVAPVPSGRKSGDYMPMSKSYSAPOQIINPFRHPQSDVN 660
 Db 601 PDSSTLHTDDGYMMSGVAPVPSGRKSGDYMPMSKSYSAPOQIINPFRHPQSDVN 660
 QY 661 GYMMSPSGGCSPDIGGSPSSSSSSNAVPSGTSYGKLMNMGVGHSHVLPHPKPVES 720
 Db 661 GYMMSPSGGCSPDIGGSPSSSSSSNAVPSGTSYGKLMNMGVGHSHVLPHPKPVES 720
 QY 721 SGGKLLPCTGDYMNMSPVGDNTSSPSDCYGGPEDPQHKFVLSYSLPRSFKKTORPGE 780
 Db 721 SGGKLLPCTGDYMNMSPVGDNTSSPSDCYGGPEDPQHKFVLSYSLPRSFKKTORPGE 780
 QY 781 BEGARHQLRLSTSSGRLLYAATADSSSTSSDLSGGYCGARLEBSLPHPHVOLOPH 840
 Db 781 BEGARHQLRLSTSSGRLLYAATADSSSTSSDLSGGYCGARLEBSLPHPHVOLOPH 840
 QY 841 LPRKVDTAQTNLSRLAPTRLISLGDPRKASTLPARREOQOQOPLHPPEKSGEYVNE 900
 Db 841 LPRKVDTAQTNLSRLAPTRLISLGDPRKASTLPARREOQOQOPLHPPEKSGEYVNE 900
 QY 901 FGSDQSGYLSGPVAFHSSPSVRCPSQLQAPAREEETGTEEYMKMDLGPGRRAAMOSTGV 960
 Db 901 FGSDQSGYLSGPVAFHSSPSVRCPSQLQAPAREEETGTEEYMKMDLGPGRRAAMOSTGV 960
 QY 961 EMGRLGAPAPGAASICPRTAVPSSRGDYMTQMCSGCRQSYVDTSPAAPVSYADMRTGIA 1020
 Db 961 EMGRLGAPAPGAASICPRTAVPSSRGDYMTQMCSGCRQSYVDTSPAAPVSYADMRTGIA 1020
 QY 1021 AEEVSLPRATMAAASSSSAASPTGPOGAELAAHSSLJGPOPGGMAAFRVNLSPN 1080
 Db 1021 AEEVSLPRATMAAASSSSAASPTGPOGAELAAHSSLJGPOPGGMAAFRVNLSPN 1080
 QY 1081 RNQAKVIRADPQCGRRRHSETSTSPSATRVNTVPFGAGAAVGGGGSSSSSEDEVKR 1140
 Db 1081 RNQAKVIRADPQCGRRRHSETSTSPSATRVNTVPFGAGAAVGGGGSSSSSEDEVKR 1140
 QY 1141 HSSASFENVMLRPGSLGAPKPAKLGAAAGLGNLNTYIDLIVXFKOCPOCCTPEPQ 1200
 Db 1141 HSSASFENVMLRPGSLGAPKPAKLGAAAGLGNLNTYIDLIVXFKOCPOCCTPEPQ 1200
 QY 1201 PPPPPHQPGLSGGSSSTRSSSEDLASVASISFQKOPEDRO 1242
 Db 1201 PPPPPHQPGLSGGSSSTRSSSEDLASVASISFQKOPEDRO 1242

RESULT 7
 US-09-436-184-5
 ; Sequence 5, Application US/09436184
 ; Publication No. US20030031670A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wands, Jack R.
 ; APPLICANT: de la Monte, Suzanne M.
 ; APPLICANT: Ince, Nedim
 ; APPLICANT: Carlson, Rolf I.
 ; TITLE OF INVENTION: DIAGNOSTICS AND TREATMENT OF MALIGNANT NEOPLASMS
 ; FILE REFERENCE: R.I. Hosp. - Malignant Neoplasms
 ; CURRENT APPLICATION NUMBER: US/09/436,184
 ; NUMBER OF SEQ ID NOS: 7
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO: 5
 ; LENGTH: 1242
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-436-184-5

Query Match 100.0%; Score 6593; DB 10; Length 1242;
 Best Local Similarity 100.0%; Pred. No. 0;

Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MASPPESDGFSDVRKCYLARKPKSMHRRFVTLRAASAAGPARLEYENKMKTHKSAP 60
 Db 1 MASPPESDGFSDVRKCYLARKPKSMHRRFVTLRAASAAGPARLEYENKMKTHKSAP 60
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 Db 61 KRSTPLESCFNINRADSKNKLVALYTRDEHFAIADSEARQDSWTQALLQLNRAKH 120
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 Db 121 HDGAALGAGGGGSCSGSSGLGEABEDLSYGDVPPGPAFKEVWQVILKPKGLQCTKLI 180
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 Db 181 GYRLCLTSKTI SFYKLNSEAAVYVLOLMTNRGCHSENPFIEVGSAAVTPGPEFMVQ 240
 QY 241 DDSVVAQNMHEITLEAMRAMSDEFRPRSKQSSNSCNPISVPLRRHLNPPSQVGLT 300
 Db 241 DDSVVAQNMHEITLEAMRAMSDEFRPRSKQSSNSCNPISVPLRRHLNPPSQVGLT 300
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 Db 301 RRSRTESITATSPAMWGKSGSPRVYASDGEGMTSPASVDGSPVSPNRTAHNRH 360
 QY 361 GSARLHPPLNLSRSIEMPARSCSPSATSPVLSSSSTSGHGSTDCLEPRSSASVSGSP 420
 Db 361 GSARLHPPLNLSRSIEMPARSCSPSATSPVLSSSSTSGHGSTDCLEPRSSASVSGSP 420
 QY 421 SDGCFISDDEYSSGCDPRSSFRSTPDSLGHTPARAEELSNYTCMGCGPSTLTNPN 480
 Db 421 SDGCFISDDEYSSGCDPRSSFRSTPDSLGHTPARAEELSNYTCMGCGPSTLTNPN 480
 QY 481 GHYILSRGNGHRCPTGTLGTSPALAGDEAASADLNRPRKTHSAGSTPTITKQTP 540
 Db 481 GHYILSRGNGHRCPTGTLGTSPALAGDEAASADLNRPRKTHSAGSTPTITKQTP 540
 QY 541 SSSVASIEEYTEMMPAYPPGGSGGRLPGHRSAFVPTRSYEBGLEHMPLERRGGHR 600
 Db 541 SSSVASIEEYTEMMPAYPPGGSGGRLPGHRSAFVPTRSYEBGLEHMPLERRGGHR 600
 QY 601 PDSSTLHTDDGYMMSGVAPVPSGRKSGDYMPMSKSYSAPOQIINPFRHPQSDVN 660
 Db 601 PDSSTLHTDDGYMMSGVAPVPSGRKSGDYMPMSKSYSAPOQIINPFRHPQSDVN 660
 QY 661 GYMMSPSGGCSPDIGGSPSSSSSSNAVPSGTSYGKLMNMGVGHSHVLPHPKPVES 720
 Db 661 GYMMSPSGGCSPDIGGSPSSSSSSNAVPSGTSYGKLMNMGVGHSHVLPHPKPVES 720
 QY 721 SGGKLLPCTGDYMNMSPVGDNTSSPSDCYGGPEDPQHKFVLSYSLPRSFKKTORPGE 780
 Db 721 SGGKLLPCTGDYMNMSPVGDNTSSPSDCYGGPEDPQHKFVLSYSLPRSFKKTORPGE 780
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 Db 781 BEGARHQLRLSTSSGRLLYAATADSSSTSSDLSGGYCGARLEBSLPHPHVOLOPH 840
 QY 841 LPRKVDTAQTNLSRLAPTRLISLGDPRKASTLPARREOQOQOPLHPPEKSGEYVNE 900
 Db 841 LPRKVDTAQTNLSRLAPTRLISLGDPRKASTLPARREOQOQOPLHPPEKSGEYVNE 900
 QY 901 FGSDQSGYLSGPVAFHSSPSVRCPSQLQAPAREEETGTEEYMKMDLGPGRRAAMOSTGV 960
 Db 901 FGSDQSGYLSGPVAFHSSPSVRCPSQLQAPAREEETGTEEYMKMDLGPGRRAAMOSTGV 960
 QY 961 EMGRLGAPAPGAASICPRTAVPSSRGDYMTQMCSGCRQSYVDTSPAAPVSYADMRTGIA 1020
 Db 961 EMGRLGAPAPGAASICPRTAVPSSRGDYMTQMCSGCRQSYVDTSPAAPVSYADMRTGIA 1020
 QY 1021 AEEVSLPRATMAAASSSSAASPTGPOGAELAAHSSLJGPOPGGMAAFRVNLSPN 1080
 Db 1021 AEEVSLPRATMAAASSSSAASPTGPOGAELAAHSSLJGPOPGGMAAFRVNLSPN 1080

Thu Jul 1 10:07:52 2004

us-09-903-063-5.rapb

Page 7

RESULT 8
US-10-085-027-1
; Sequence 1, Application US/10085027
; Publication No. US20020132759A1
; GENERAL INFORMATION:
; APPLICANT: YAZAKI, YOSHIO
; APPLICANT: ASANO, TOMOICHIRO
; APPLICANT: KUBO, HIDEO
; APPLICANT: KANDA, AKIRA
; TITLE OF INVENTION: REMEDIES FOR DISEASES CAUSED BY INSULIN RESISTANCE
; FILE REFERENCE: 4895-0019-0PCT
; CURRENT APPLICATION NUMBER: US/10/085,027
; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: 09/508,691
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: PCT/JP98/04293
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: JP9-263719
; PRIOR FILING DATE: 1997-09-29
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: Patent version 3.0
; SEQ ID NO 1
; LENGTH: 1242
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-085-027-1

Query Match 100.0%; Score 6593; DB 13; Length 1242;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MASPPSDGSDVRYKGYLKKPKMKRFFVLRAASAPAGPARLEYENKKRHSAP 60
DB 1 MASPPSDGSDVRYKGYLKKPKMKRFFVLRAASAPAGPARLEYENKKRHSAP 60
QY 61 KRSIPLESCEINIKRADSKKHLVALYTRDEHFAIAADSEADSWYQALLQHNRAKH 120
DB 61 KRSIPLESCEINIKRADSKKHLVALYTRDEHFAIAADSEADSWYQALLQHNRAKH 120
QY 121 HDGAALAGAGGGGSGSGSGLGEAGBDLSYGDVPPGAPKEXWQYLKPKGIGQTKNLI 180
DB 121 HDGAALAGAGGGGSGSGSGLGEAGBDLSYGDVPPGAPKEXWQYLKPKGIGQTKNLI 180
QY 181 GIYRLCLTSKTIISFKVLSNBAAVVLQNMIRRCGHSENFPLEVGSAAVTGGEFMQV 240
DB 181 GIYRLCLTSKTIISFKVLSNBAAVVLQNMIRRCGHSENFPLEVGSAAVTGGEFMQV 240
QY 241 DSDVVAONMHTIIEARASDEFPRRSKQSSSNCNPISVPLRHHLMNPPSOVGLT 300
DB 241 DSDVVAONMHTIIEARASDEFPRRSKQSSSNCNPISVPLRHHLMNPPSOVGLT 300
QY 301 RRSRTEBITTSPASWVGKRGSPFRVASSDGEGTMRSPASVSGSPVSPETNTHARRH 360
DB 301 RRSRTEBITTSPASWVGKRGSPFRVASSDGEGTMRSPASVSGSPVSPETNTHARRH 360
QY 361 GSARLHPPLNHSRBIIMPASRCSPASISVLSSSSTSGSGSISDCLFPRSSASVSGSP 420
DB 361 GSARLHPPLNHSRBIIMPASRCSPASISVLSSSSTSGSGSISDCLFPRSSASVSGSP 420

QY 421 SDGFISSDEYSSPCDFRSSFRRSVTPDSLGHTPPARAGEELSNYICMGKGPSTLTA 480
DB 421 SDGFISSDEYSSPCDFRSSFRRSVTPDSLGHTPPARAGEELSNYICMGKGPSTLTA 480
QY 481 GHYILSRGNHRCCTPGUGCTSPALAGDEAASADLDNRRKXTHSAGSPITTHOKTP 540
DB 481 GHYILSRGNHRCCTPGUGCTSPALAGDEAASADLDNRRKXTHSAGSPITTHOKTP 540
QY 541 SOSVASTIEEYTEMWPAVPPGSGSGRLPGRHSAFVPTRSYPRGLEMEPLERGGHR 600
DB 541 SOSVASTIEEYTEMWPAVPPGSGSGRLPGRHSAFVPTRSYPRGLEMEPLERGGHR 600
QY 601 PDSSTLHTDDGYMMSPGVAVPVGGRGSGDYMMSKRSYSAPOQIINPFRHQRVDN 660
DB 601 PDSSTLHTDDGYMMSPGVAVPVGGRGSGDYMMSKRSYSAPOQIINPFRHQRVDN 660
QY 661 GYMMMSPGGCSPIIGGFPSSSSSSNAVPSGTSYGLMTNGVGHSHSHVLPHPKPVES 720
DB 661 GYMMMSPGGCSPIIGGFPSSSSSSNAVPSGTSYGLMTNGVGHSHSHVLPHPKPVES 720
QY 721 SGGKLPCTGDYMMMSPVGDSNTSSPDDCTYGPEDPOHKPYLSYSLPRGFKTORGER 780
DB 721 SGGKLPCTGDYMMMSPVGDSNTSSPDDCTYGPEDPOHKPYLSYSLPRGFKTORGER 780
QY 781 EGGARHQLRLSTSSGRLLVYATADDSSTSSDGLGGYCGALTEPSLPHPHQVLOPH 840
DB 781 EGGARHQLRLSTSSGRLLVYATADDSSTSSDGLGGYCGALTEPSLPHPHQVLOPH 840
QY 841 LPRKVTAAQNTSRLARPTRLSLGDPKASTLPARBEQOQOQPLHPPEKSPGEYVNI 900
DB 841 LPRKVTAAQNTSRLARPTRLSLGDPKASTLPARBEQOQOQPLHPPEKSPGEYVNI 900
QY 901 FGSDGSGYLSGPVAFHSSPSVRCPSOLOPARBEETGTEEMKMDLGPGRANQESGV 960
DB 901 FGSDGSGYLSGPVAFHSSPSVRCPSOLOPARBEETGTEEMKMDLGPGRANQESGV 960
QY 961 EMGRIGPAPGNAISCREPTRAVPSSRGDYMTQMSCPHOSYVDTSPAAPVSYADMRTGIA 1020
DB 961 EMGRIGPAPGNAISCREPTRAVPSSRGDYMTQMSCPHOSYVDTSPAAPVSYADMRTGIA 1020
QY 1021 AEVSLPRAATMAAASSSASASPTGOGAELAAHSLGPGPGMSAFTVNTSPN 1080
DB 1021 AEVSLPRAATMAAASSSASASPTGOGAELAAHSLGPGPGMSAFTVNTSPN 1080
QY 1081 RNSAKVIRADPOGCRRRHSSETSSTPSATRVGNTVPFGAGAAVGGGSGSSSEDEVK 1140
DB 1081 RNSAKVIRADPOGCRRRHSSETSSTPSATRVGNTVPFGAGAAVGGGSGSSSEDEVK 1140
QY 1141 HSSASFENVWLRPGELGAPKEPAKLCGAAGLENGLYIDLDLVKPFQOCPECTPEPQ 1200
DB 1141 HSSASFENVWLRPGELGAPKEPAKLCGAAGLENGLYIDLDLVKPFQOCPECTPEPQ 1200
QY 1201 PPPPPPHQPLGSGGSSSTRSSSEDLASVASISFOKQPEDRQ 1242
DB 1201 PPPPPPHQPLGSGGSSSTRSSSEDLASVASISFOKQPEDRQ 1242

RESULT 9
US-10-694-874-1
; Sequence 1, Application US/10694874
; Publication No. US20040097713A1
; GENERAL INFORMATION:
; APPLICANT: CELL SIGNALING TECHNOLOGY, INC.
; APPLICANT: POLAKIEWICZ, Roberto
; APPLICANT: LI, YU
; TITLE OF INVENTION: ANTIBODIES SPECIFIC FOR PHOSPHORYLATED IRS-1/2 (Ser1101/Ser1149)
; FILE REFERENCE: CST-209
; CURRENT FILING DATE: 2003-10-28
; PRIOR APPLICATION NUMBER: US 60/422,409
; PRIOR FILING DATE: 2002-10-30

NUMBER OF SEQ ID NOS: 11
 SOFTWARE: Patentin version 3.1
 SEQ ID NO 1
 LENGTH: 1242
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-694-874-1

Query Match 100.0%; Score 6593; DB 16; Length 1242;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MASPPESDGFSDVRKVGILRKPKSMKRFVLRRAASEAGPARLEYENKMKRHSAP 60
DB 1 MASPPESDGFSDVRKVGILRKPKSMKRFVLRRAASEAGPARLEYENKMKRHSAP 60
QY 61 KRSTPLESCFNINRKADSKNKHVALYTRDEHFAIADSEABQDSWYQALLQINRAKH 120
DB 61 KRSTPLESCFNINRKADSKNKHVALYTRDEHFAIADSEABQDSWYQALLQINRAKH 120
QY 121 HDGAALAGAGGGGSCSSGSGEAGEEDLSYGDVPPGPAFKEMVQVILKPKGLGOTKLI 180
DB 121 HDGAALAGAGGGGSCSSGSGEAGEEDLSYGDVPPGPAFKEMVQVILKPKGLGOTKLI 180
QY 181 GIYRLCLTSKTIKSPVKLNSEAAAVVLQIMNIRCGHSENFPIEYGRSAVTGPGEFMQV 240
DB 181 GIYRLCLTSKTIKSPVKLNSEAAAVVLQIMNIRCGHSENFPIEYGRSAVTGPGEFMQV 240
QY 241 DDSVVAQNMHETILEMRAMSDPEPRRSKQSSNSCNSPIEVLRRHILNPPPSOYGLT 300
DB 241 DDSVVAQNMHETILEMRAMSDPEPRRSKQSSNSCNSPIEVLRRHILNPPPSOYGLT 300
QY 301 RRSRTESITATSPASWVGKPGSPFVRASDDEGTMSPASVDSPVSPSTNRTHAHRH 360
DB 301 RRSRTESITATSPASWVGKPGSPFVRASDDEGTMSPASVDSPVSPSTNRTHAHRH 360
QY 361 GSARLHPILNHSRSLPMASRCSBSATSPVLSSTSGHSTSDCCPPRRSSASVSGSP 420
DB 361 GSARLHPILNHSRSLPMASRCSBSATSPVLSSTSGHSTSDCCPPRRSSASVSGSP 420
QY 421 SDGPFISDDEYSSPCDPRSSFRSVTPDLSGHTPPARGEBELSNYICWGKGPSTLTA 480
DB 421 SDGPFISDDEYSSPCDPRSSFRSVTPDLSGHTPPARGEBELSNYICWGKGPSTLTA 480
QY 481 GHYIISRCGNHRCPTGTGLTSPALADDEAASADLNNRKRKTHSAAGTPTTQKTP 540
DB 481 GHYIISRCGNHRCPTGTGLTSPALADDEAASADLNNRKRKTHSAAGTPTTQKTP 540
QY 541 SOSVASIIEEYTEMMPAYPPGGSGGRLPGHRHSAFVTRSPYEEGLEMPLERRGGHR 600
DB 541 SOSVASIIEEYTEMMPAYPPGGSGGRLPGHRHSAFVTRSPYEEGLEMPLERRGGHR 600
QY 601 PDSSTLHDDGTYMPPGVAIPYSGRKSGSDYMPMSPKVSAPQOIIINPIRHPQRYDEN 660
DB 601 PDSSTLHDDGTYMPPGVAIPYSGRKSGSDYMPMSPKVSAPQOIIINPIRHPQRYDEN 660
QY 661 GYMMASPSGGGCPDGGGPPSSSSSSNAVPSTGSKMTNGVGGHSHVLPHPKPPES 720
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QY 721 SGGKLLPCTGDYMNNSPVGDSNTSPSDCYCYGPEDPQHKPVLASYSLPRSFKHTQRPGE 780
DB 721 SGGKLLPCTGDYMNNSPVGDSNTSPSDCYCYGPEDPQHKPVLASYSLPRSFKHTQRPGE 780
QY 781 EGGARHQLRLSTSGRLLYAATADSSSTSSDBLGGYCGARLEPBLPHPHQVLOPH 840
DB 781 EGGARHQLRLSTSGRLLYAATADSSSTSSDBLGGYCGARLEPBLPHPHQVLOPH 840
QY 841 LPRKVDTAQNTSRLARPTLSLGPXASTLPRAEQQOQQOQLLHPPEPKSPSEYNI 900
DB 841 LPRKVDTAQNTSRLARPTLSLGPXASTLPRAEQQOQQOQLLHPPEPKSPSEYNI 900
QY 901 FGSDDSGYLSCGVAVAHSSPVACPSQQLQAPAREESTGTBEYMKDLDGGRRAAQEESTGV 960

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DB 901 FGSDDSGYLSCGVAVAHSSPVACPSQQLQAPAREESTGTBEYMKDLDGGRRAAQEESTGV 960
QY 961 EMGRIGPAPPGAASICRPTRAVPSRGDYMTWMSCPFSQYDTSPPAPVSYADNRGIA 1020
DB 961 EMGRIGPAPPGAASICRPTRAVPSRGDYMTWMSCPFSQYDTSPPAPVSYADNRGIA 1020
QY 1021 AEEVSLPRTAASASSSSAASPTGPGAAETLAHSSLLGGPQGGMSATRYNLSPN 1080
DB 1021 AEEVSLPRTAASASSSSAASPTGPGAAETLAHSSLLGGPQGGMSATRYNLSPN 1080
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DB 1081 RNQSAKVIADPQGRRRHSETFSTPSATREVENTVPFGAAGVGGGSSSEDYKR 1140
QY 1141 HSSASFENWMLRPGELGAPKPEPALCGAAGGLENGLYTIDLDVKDFKQCPQECTPERQ 1200
DB 1141 HSSASFENWMLRPGELGAPKPEPALCGAAGGLENGLYTIDLDVKDFKQCPQECTPERQ 1200
QY 1201 PPPPPPPQPLGSGSSSTRRSSDLSAVASISFOKQEDRQ 1242
DB 1201 PPPPPPPQPLGSGSSSTRRSSDLSAVASISFOKQEDRQ 1242

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RESULT 10
 US-10-334-143-10
 ; Sequence 10, Application US/10334143
 ; Publication No. US20040009549A1
 ; GENERAL INFORMATION:
 ; APPLICANT: GRIGORIY, IGOR VYACHESLAVOVICH
 ; TITLE OF INVENTION: METHOD FOR DETECTING REMOTE HOMOLOGUES AND NOVEL
 ; FILE REFERENCE: 038602/1543
 ; CURRENT APPLICATION NUMBER: US/10/334,143
 ; PRIOR FILING DATE: 2002-12-31
 ; PRIOR APPLICATION NUMBER: 60/343,169
 ; NUMBER OF SEQ ID NOS: 207
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 10
 ; LENGTH: 1316
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-334-143-10

Query Match 100.0%; Score 6593; DB 15; Length 1316;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MASPPESDGFSDVRKVGILRKPKSMKRFVLRRAASEAGPARLEYENKMKRHSAP 60
DB 75 MASPPESDGFSDVRKVGILRKPKSMKRFVLRRAASEAGPARLEYENKMKRHSAP 134
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DB 135 KRSTPLESCFNINRKADSKNKHVALYTRDEHFAIADSEABQDSWYQALLQINRAKH 194
QY 121 HDGAALAGAGGGGSCSSGSGEAGEEDLSYGDVPPGPAFKEMVQVILKPKGLGOTKLI 180
DB 195 HDGAALAGAGGGGSCSSGSGEAGEEDLSYGDVPPGPAFKEMVQVILKPKGLGOTKLI 254
QY 181 GIYRLCLTSKTIKSPVKLNSEAAAVVLQIMNIRCGHSENFPIEYGRSAVTGPGEFMQV 240
DB 255 GIYRLCLTSKTIKSPVKLNSEAAAVVLQIMNIRCGHSENFPIEYGRSAVTGPGEFMQV 314
QY 241 DDSVVAQNMHETILEMRAMSDPEPRRSKQSSNSCNSPIEVLRRHILNPPPSOYGLT 300
DB 315 DDSVVAQNMHETILEMRAMSDPEPRRSKQSSNSCNSPIEVLRRHILNPPPSOYGLT 374
QY 301 RRSRTESITATSPASWVGKPGSPFVRASDDEGTMSPASVDSPVSPSTNRTHAHRH 360
DB 375 RRSRTESITATSPASWVGKPGSPFVRASDDEGTMSPASVDSPVSPSTNRTHAHRH 434

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QY 361 GSARLHPPLNHSRSLPMPASRCSPSATS PVSLSSSSTSGHSTSDCLFRRSSASVSGSP 420
Db 435 GSARLHPPLNHSRSLPMPASRCSPSATS PVSLSSSSTSGHSTSDCLFRRSSASVSGSP 494
QY 421 SDGGFISDEYSSPCDPRSSFRSVTPSLGHTPPAREEELSNVICMGKGSPTLTAPN 480
Db 495 SDGGFISDEYSSPCDPRSSFRSVTPSLGHTPPAREEELSNVICMGKGSPTLTAPN 554
QY 481 GHYILSRGNGHRCCTPGTGLTSPALAGDEAASADLNRPRKRTHSAGTSPITTHQXP 540
Db 555 GHYILSRGNGHRCCTPGTGLTSPALAGDEAASADLNRPRKRTHSAGTSPITTHQXP 614
QY 541 SOSSTVASTIEEYTEMMPAIPPGGSGGRLPGHRSFAVTRTSYPERGLEMHLERRGGHR 600
Db 615 SOSSTVASTIEEYTEMMPAIPPGGSGGRLPGHRSFAVTRTSYPERGLEMHLERRGGHR 674
QY 601 PDSSTLHTDDGYMPSPGVAPVPSGRKSGDYMPSPKSVAPQOIINPIRRHFQRYDPN 660
Db 675 PDSSTLHTDDGYMPSPGVAPVPSGRKSGDYMPSPKSVAPQOIINPIRRHFQRYDPN 734
QY 661 GYMMMSPSGGCSPDIGGGPSSSSSSSNAVPSTGYGLMTNMGVGHSHVLPHPKPYES 720
Db 735 GYMMMSPSGGCSPDIGGGPSSSSSSSNAVPSTGYGLMTNMGVGHSHVLPHPKPYES 794
QY 721 SGGKLLPCTGDMNMSPVGDSNTSSPDCCYGPEDPOHKPVLSTYSLPRSFHTQRPGE 780
Db 795 SGGKLLPCTGDMNMSPVGDSNTSSPDCCYGPEDPOHKPVLSTYSLPRSFHTQRPGE 854
QY 781 EBGAAHQHLRLSTSSGRLLYAATADSSSTSSDSLGGGYCGARLEPLPHPHQVLOPH 840
Db 855 EBGAAHQHLRLSTSSGRLLYAATADSSSTSSDSLGGGYCGARLEPLPHPHQVLOPH 914
QY 841 LPRKXDTAQTNRSLAPTRLISGDPKASTLPRAEQQOQOQPLHPREPSPEYVITE 900
Db 915 LPRKXDTAQTNRSLAPTRLISGDPKASTLPRAEQQOQOQPLHPREPSPEYVITE 974
QY 901 FGSDOSGYLSPVAFHSSPSVRCPSOLOPAPREBETGTEZYKMDLGGPRAAMQESTGV 960
Db 975 FGSDOSGYLSPVAFHSSPSVRCPSOLOPAPREBETGTEZYKMDLGGPRAAMQESTGV 1034
QY 961 EMGRIGRAPAGASTCRPTPRANPSSRGDMYTMQSCFPOSYVTSPAPVSYADMRGTA 1020
Db 1035 EMGRIGRAPAGASTCRPTPRANPSSRGDMYTMQSCFPOSYVTSPAPVSYADMRGTA 1094
QY 1021 AEEVSLPRATMAAASSSSASASPTGPOGAELAHSSLLGGPOPGGMSAFTRVNLSPN 1080
Db 1095 AEEVSLPRATMAAASSSSASASPTGPOGAELAHSSLLGGPOPGGMSAFTRVNLSPN 1154
QY 1081 RNQSAKVIADPOGCRRRHSSSTFSSSTPSATRVGNTVPPGAGAAVGGGGSSSSSEYKR 1140
Db 1155 RNQSAKVIADPOGCRRRHSSSTFSSSTPSATRVGNTVPPGAGAAVGGGGSSSSSEYKR 1214
QY 1141 HSSASFENWMLRPGELGAPKEPAKLCGAAGLENGLYNIDLDVKDPKOCPOECTPBPQ 1200
Db 1215 HSSASFENWMLRPGELGAPKEPAKLCGAAGLENGLYNIDLDVKDPKOCPOECTPBPQ 1274
QY 1201 PPPPPPPOPLGSSSSSTRSSSEDL SAVAASISFOKQEPDRQ 1242
Db 1275 PPPPPPPOPLGSSSSSTRSSSEDL SAVAASISFOKQEPDRQ 1316

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RESULT 11
US-10-694-874-3
; Sequence 3, Application US/10694874
; Publication No. US20040097713A1
; GENERAL INFORMATION:
; APPLICANT: CELL SIGNALING TECHNOLOGY, INC.
; APPLICANT: POLAKIEWICZ, Roberto
; APPLICANT: LI, Yu
; APPLICANT: MU, Jiong
; TITLE OF INVENTION: ANTIBODIES SPECIFIC FOR PHOSPHORYLATED IRS-1/2 (Ser1101/Ser1149)
; TITLE OF INVENTION: THEREOF

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; FILE REFERENCE: CST-209
; CURRENT APPLICATION NUMBER: US/10/694,874
; CURRENT FILING DATE: 2003-10-28
; PRIOR APPLICATION NUMBER: US 60/422,409
; PRIOR FILING DATE: 2002-10-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 1231
; TYPE: PR
; ORGANISM: Mus musculus
US-10-694-874-3

Query Match      88.0%; Score 5804.5; DB 16; Length 1231;
Best Local Similarity 89.2%; Pired. No. 0;
Matches 1111; Conservative 35; Mismatches 82; Indels 17; Gaps 10;

QY 1 MASPPSDGSPDVRKGYLKRKPSMKRFFVLRAASEAGPARLEYENKKRHSAP 60
Db 1 MASPPDIDGSDVRKGYLKRKPSMKRFFVLRAASEAGPARLEYENKKRHSAP 60
QY 61 KRSIPLESCFNINRADSKKHLVALYTDHFPAIADSEADQSWYQALLQHNRAKH 120
Db 61 KRSIPLESCFNINRADSKKHLVALYTDHFPAIADSEADQSWYQALLQHNRAKH 120
QY 121 HDGAALGAGGGGSGSGSSGAGEGDLSTGYDPGPPAFKEMVOYTLKPKLGOTKLI 180
Db 121 HDGA---GGGCGSGSGSGSGVEAGEDELST-DTGGAFAKEMVOYTLKPKLGOTKLI 175
QY 181 GYRLCLTSTKTIISFVKLNEBAAVLQLMNIRRGHSENFPLEVGRSAVTGGEFMVOY 240
Db 176 GYRLCLTSTKTIISFVKLNEBAAVLQLMNIRRGHSENFPLEVGRSAVTGGEFMVOY 235
QY 241 DSDVVAQMAETILEMRAVMSDEFRPRSKSSQSSNSQNSITVPLRHHNNPPSGVGLT 300
Db 236 DSDVVAQMAETILEMRAVMSDEFRPRSKSSQSSNSQNSITVPLRHHNNPPSGVGLT 295
QY 301 RRSRTSITATSPASNVGKPGSFRVRASDGEITMSPASVDSFVPSITNRTHARR 360
Db 296 RRSRTSITATSPASNVGKPGSFRVRASDGEITMSPASVDSFVPSITNRTHARR 355
QY 361 GSARLHPPLNHSRSLPMPASRCSPSATS PVSLSSSSTSGHSTSDCLFRRSSASVSGSP 420
Db 356 GSARLHPPLNHSRSLPMPASRCSPSATS PVSLSSSSTSGHSTSDCLFRRSSASVSGSP 415
QY 421 SDGGFISDEYSSPCDPRSSFRSVTPSLGHTPPAREEELSNVICMGKGSPTLTAPN 480
Db 416 SDGGFISDEYSSPCDPRSSFRSVTPSLGHTPPAREEELSNVICMGKGSPTLTAPN 475
QY 481 GHYILSRGNGHRCCTPGTGLTSPALAGDEAASADLNRPRKRTHSAGTSPITTHQXP 540
Db 476 GHYILSRGNGHRCCTPGTGLTSPALAGDEAASADLNRPRKRTHSAGTSPITTHQXP 535
QY 541 SOSSTVASTIEEYTEMMPAIPPGGSGGRLPGHRSFAVTRTSYPERGLEMHLERRGGHR 600
Db 536 SOSSTVASTIEEYTEMMPAIPPGGSGGRLPGHRSFAVTRTSYPERGLEMHLERRGGHR 595
QY 600 RPDSTLHTDDGYMPSPGVAPVPSGRKSGDYMPSPKSVAPQOIINPIRRHFQRYDPN 660
Db 596 RPDSTLHTDDGYMPSPGVAPVPSGRKSGDYMPSPKSVAPQOIINPIRRHFQRYDPN 655
QY 660 GYMMMSPSGGCSPDIGGGPSSSSSSSNAVPSTGYGLMTNMGVGHSHVLPHPKPYE 720
Db 656 GYMMMSPSGGCSPDIGGGPSSSSSSSNAVPSTGYGLMTNMGVGHSHVLPHPKPYE 714
QY 720 SGGKLLPCTGDMNMSPVGDSNTSSPDCCYGPEDPOHKPVLSTYSLPRSFHTQRPGE 780
Db 715 SGGKLLPCTGDMNMSPVGDSNTSSPDCCYGPEDPOHKPVLSTYSLPRSFHTQRPGE 774
QY 780 EBGAAHQHLRLSTSSGRLLYAATADSSSTSSDSLGGGYCGARLEPLPHPHQVLOPH 840
Db 775 EBGAAHQHLRLSTSSGRLLYAATADSSSTSSDSLGGGYCGARLEPLPHPHQVLOPH 834

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Db 1226 GGLVCGPGGSGSPMRERETAGCQNGLKTAID-VAREBOLP-----PQPPPPPLP-QP- 1278
Qy 1212 GSGGSSSTRS 1222
Db 1279 --GDKSSWGRT 1287

RESULT 13
US-10-087-192-708
; Sequence 708, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric X.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; NUMBER OF SEQ ID NOS: 2059
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 708
; LENGTH: 1278
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)...(1278)
; OTHER INFORMATION: Xaa = Any Amino Acid
US-10-087-192-708

Query Match 29.5%; Score 1942.5; DB 12; Length 1278;
Beet Local Similarity 39.6%; Pred. No. 5.1e-114;
Matches 545; Conservative 141; Mismatches 371; Indels 321; Gaps 61;

Qy 29 FEVLRA-----ASEAGQ-----PARLEYENKMKRHSAPKSKSIFLESCFNINKRAD 77
Db 1 FEVLGPGAGDEATAGGGSAPQPPRLYESEKMKRKAQAPKAVILDDCLINIKRAD 60
Qy 78 SSKKRLVALYTDDEFPAIADSEAFQDSYQALLDLHRAKHHDGAALG---AGGGG 133
Db 61 AHKYLIALYTDDEFPAIADSEAFQDSYQALLDLHRAKHHDGAALG---AGGGG 133
Qy 134 GSCGSG-----SGLEAGEDELSDYDVPFG--PAFKEVQVILKPKGLQOTNLIIGYRLC 186
Db 115 ASGASLPGALGSGAGAGAEEDSYGLVAPATAAYEWAQVNLKPKGLQOSNLIIGYRLC 174
Qy 187 LTKTISFYKLNSEAAVVLQMLNIRRCGSHSENFPIFVGSAAVTGPEEFMAYDDSYVA 246
Db 175 LSARITGFYKLNCEQPSYTLQMLNIRRCGSHSENFPIFVGSAAVTGPEELMAYDDSYVA 234
Qy 247 QMHTETLEAMRAMSD--EPRFRSKQSS--SNCSNPISVP--LRHHNLNPPPOVGLTR 301
Db 235 QNHHTILIAMKALKELEFRRFRSKQSSGSSATHPISVPGARRHHNLVNLPPSOTGLVR 294
Qy 302 RSRTESITATSPFASNVGKPGSFVRASDDEG-----TMSRPASVDSGSPVSTNR 353
Db 295 RSRTISLATPPRA-----KCSGCRVRTASEGCGAAGAAAGAPVAVASPLSPGVR 350
Qy 354 THAHRH-----RGS-ARLHP--PLNHSRSIEMASACSPSATSPEVLSSTSGH 400
Db 351 APLSHSHLSGGCCGGRKVALLPAGALQHSRSISMVAVASPPATISPGSLSS--SGH 408
Qy 401 GSTS-----DCLFRRSSASVSGSPSDGFISSDEYSSPCDFRS-- 440
Db 409 GSGSVPPPGPHPLPHLHGPQGRFSSGSASASGSDGFMGLDYSPPGLNRF 468
Qy 441 SFRSVTPPSLGHTRPAR---GHEELSNYICMGKQKPSLTLPANGHYILSRGNGHRCRTGP 497

Db 469 SHSNSTESIAETPPADGGGGGPFYGM-----TMDRP-----LSHCGSYR---- 511
Qy 498 TGLTSPALAGDEASAAADLNRFRKRTSHAGTSPTITTHOKTPSQSSVASIEBYETMPA 557
Db 512 -----RVSGD---AAQDLDGRGRLKRTYGL-TTP--AQGRPVOPSSASLDEYTLMEAT 558
Qy 558 YPRGGSGGRL-----FGRHSAFVPTIRSYPE--GLEMHLERGRGHHRRDSTLTITDDG 611
Db 559 F---SSSAGRLCPSCPA--SSPVAAYHPYEDYDIEI-----GSHRSSSNLADGD 606
Qy 612 YMEPSGVAVPVPSGRKO--SGDYMPMSPKVSAPQCIINP-----IRRHQRYDPNGYMM 664
Db 607 YMEPTPGALAGSGSGCRSDDTMPMSPASVSAPKQILQBRAAAAAAVPSAGPGAP 666
Qy 665 MSFSGGSPDITGGFPSSSSSSNAVPSGTSYGLTNNGVGHSHVLPHEKPEVSSGK 724
Db 667 TSAAGRTFPASGGGYKASSPAES--PEDSGYMMWCGS-----KLSMEHADGK 713
Qy 725 ILPCTGDMYMMSPVGDNTSSPSDCYXGPEDPQHKPV-----LSYXSLPSFKTORPGE 779
Db 714 LLP--NGDYLVNPSDAVTTGTPDFSAALHPSGPELRGVGCCYSLPSRYAPTCG-- 771
Qy 780 PERGARHQLRLSTSSGRLIYAATDSSS--STSSDSLGGYCGARLEPSLPHPHOV 836
Db 772 ---GDSQVYLMSSPVGRILIEERLEPQATPCPSQAASAFAAG-----PTQP--DHPV 820
Qy 837 LQPLRP--KYDIAQONSLARPTLSL--GDPKASTLPARARQOQOQOQLHPPEPKP 893
Db 821 PSFVBSGGAPPEGLQGRHAUTPTLSLEGLP--SLPSMHP--YPL--PPEPKP 870
Qy 894 GEYVNIPEGSDQSGYLSGP-----VAHSSPVRCPSOLQAPAREBETG----- 938
Db 871 GEYINIDFG--EPGARLSPAPPLLASAASSSLASPSASSGTPGTSDSRQSP 929
Qy 939 EYMKXDLGPRRAAQSNGVEMGRLG-----PAP 969
Db 930 SDYMNLDFFSPKPKPGAGBPVSGDLGLSEASSPYPLPFRPSAPSSSLQPPPP 989
Qy 970 PGAASICR--PTRAVPSRQDYVTMOMSCPROSYVDTSPAAPVYADMETGIAEVSUP 1027
Db 990 PARGELRYLPPASAVATAVTPGAASSLS-----DTGNG--DYTEMAFGVA---TTP 1038
Qy 1028 RATMAAASSSASASAPTPQGAELAAASLSLGGQGGGASAFTRVNLSPRNOSAKY 1087
Db 1039 QPIAAPPKPBAVAPPT--SGYKRLSLMEQV-----SGVAFLOAQOPDPHFGAVY 1089
Qy 1088 IRADPOGCRRHSSSTFSSSTPSATRVGNTVPFGAAGAVGGGSSSSSDVKKHSASPE 1147
Db 1090 IRADPOGCRRHSSSTFSSSTTTPV-----SPFPAINPKRHNASV 1132
Qy 1148 NWMLRPEGLG-----APKEPAKLCGAAG----- 1171
Db 1133 NVSLKSSSEGGVGVGCGGDEPTSPROLQAPAPLAPQGRPMTPGQPGILVGGPGSGSP 1192
Qy 1172 -----GLENGANYIDLVDVDFKQCPQSCPEPQPPPPPHOPLGSGSSSTRS 1222
Db 1193 MRRETSAGFQNGNLTAIID-VAREBOLP-----PQPPPPPLP-QP---GDKSSWGRT 1241

RESULT 14
US-10-694-874-4
; Sequence 4, Application US/10694874
; Publication No. US20040097713A1
; GENERAL INFORMATION:
; APPLICANT: CELL SIGNALING TECHNOLOGY, INC.
; APPLICANT: POLAKIEWICZ, Roberto
; APPLICANT: LI, Yu
; APPLICANT: WU, Jiong
; TITLE OF INVENTION: ANTIBODIES SPECIFIC FOR PHOSPHORYLATED IRS-1/2 (Ser1101/Ser1149)
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CST-209
; CURRENT APPLICATION NUMBER: US/10/694,874

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us-09-903-063-5.rapb

Page 13

Db 1 KHGKRFVYLRGTGDEASAGSPQPRLEVESEKWRKAGARVIALDCCIN 60
QY 72 INKRADSKNHLVATYRDEHFAIADSEADSWYQALLQLNRAKGHIDGAALGAG 131
Db 61 INKRADAKIKVIALTTKDEYFAVAENQOEQWTRALTDLVSESRSEGC-----GGGT 115
QY 132 GGGSCSGS-----SELGAGEDLSTGYDVPQGA-FKEYVQYILKPKGLGQTKULIGYR 184
Db 116 TGSSCSASLPGLVGSAGAGACDDNYGLVTPATAVREVWQVNLKPKGIGOSKMLTGYR 175
QY 185 LCTISKTISFVKLNSBAAVVLQLMNIRCGHSENFPIEYGRSAVTGEGEMQVDDSV 244
Db 176 LCTISATIGVKLNCQPSVTLQLMNIRCGHSDSFFIEVGRSAVTGELMMAQADSV 235
QY 245 VAQNMETLLEARNAMSDERFRPSKQSSSNCSNPISVPLRHHLLNPPSQVGLTRSR 304
Db 236 VAQNIHETILEAKKALKEFRVPAQQDSGHGSGSYPLP----- 274
QY 305 TESTATSPASVGRKPSFRVPAASDGEQMSRPAVSVDGSPVSPSTNTHARRHSAR 364
Db 275 -----PGS-----HPR----- 280
QY 365 LHPPLNHSRSTPMPARCSPTSATSPVLSSSSTSGHSTSDCLFPRSSASVSGSPDGG 424
Db 281 LHPPLHH-----PQGRPS-----GSASASGSPSDPG 308
QY 425 FISSDEYSGSPCDFR--SSFRSVTPDLSLHTPPARGEE--ELSNYICMGKGPSTITAPN 480
Db 309 FMSLDEYSGSPGLRFAFSSHSRSTPESIAETPPARDGSGGELGYMSMDRP----- 359
QY 481 GHYILRSGNGHRCPTGTGLGTSPALAGDEAASADLNRFRKTHSAGTSPITHXTP 540
Db 360 -----LHCGRPYRVRGSG-----AQDLDRGLRRTYSL--TTP--ARQRY 398
QY 541 SQSSVASIEEYTEMMPAYPPGGSGGRL-FGH-RHSAFVPTRSYEE--GLENHPLERRG 596
Db 399 PCPSASLDEYTLRATF--SGSSGRLCPSPASSPKVAINPYEDYGDIER----- 448
QY 597 GHHRPSSLTHTDDGYMPSGVAVPVSGRKG--SGDYMPSPKSYAPQOINPFRAP 654
Db 449 GSHKSSSNUGADGYPMTFGAALSGGPNCKSDYMPSTVSARKQILCP--RLA 506
QY 655 QRYVDPNGYMMSPSGCSP--DIQGGPSSSSSSNAVPSGTSGYKLTNGVGGHSHVLP 712
Db 507 AALPPSGAAPPSPSGVGRTPFVNGGKYKASSPAESPEBDSGYRMWCS----- 556
QY 713 HPRPVYSSSGKLLPCTGDMNMSPVDSNTSSPD---CYGPEDPQHKPVLASYSLP 768
Db 557 --KLSMENPDKLIP-NGDYLNMSPEAGTAGTPDPSAALRGSEGLKIGICHYSSLP 613
QY 769 RSFKHTORPGBP--EEGARHQHLRLSTSGRLYYAATADDSSSTSDSLGGGYCGARLE 826
Db 614 RSYK-----APCGSGDNDQYVLMSPFVRILEERLEPOATP-----GAGTPGA-AG 660
QY 827 PSLPHPHVLOPHL-PRXVDTAAQ-----INSRLARPTLSLIGPKASTLPRAREOQOQ 881
Db 661 GSHTOPHHSAVPSSMRPSAIGRPEGLGQRCRAVRPTRLSL--EGLQTLP-----SMOE 713
QY 882 QPLHPPPEKSPGSEYVNIIEFGSDGYLGPVAFHSSPSVRCPSQL-----QPA----- 930
Db 714 YPL--PTEPKSPGXYINIDFG--EAGTRLSPPAPPLASASSSLASASSPASLSGSGT 769
QY 931 -----PABETGTERTKMDLG-----PGRRAAOSTGVEMGRLG----- 966
Db 770 PGTSSDSRQRSPFLSDYMLDFSSPKSPKPTRSG--DTVSGMDGLSPASSPYPLPPR 827
QY 967 -----PAPGAASIGR--PTRAVSSRGDYTMQMSCPROSYVDTSPPAAVSYADM 1015
Db 828 PSTSPSSLOQLPAPAGDLYLPPASAAITSGPTAGSSMS-----SEPDNDGYTEM 879
QY 1016 RTGIAEBEVSIPRATMAASSSSASASPTGPGAAELAAHSSILGPGQGGMSATRY 1075
Db 880 AFGVAA--TPPQPIVAPPKPEGARVVASPT--SGIKRLSLMDQV-----SGVEAFLOV 927

QY 1076 NLSPEHQSAKVIRADPOGCRHRHSETFSSSTPSATRVGNTVPFGAAGVGGGGSSSS 1135
Db 928 SQPDPHRAKAVIRADPOGGRRRHSETFSSSTTTPV-----SPSFA 970
QY 1136 EDVRRHSSARENTVLRPGE-----LGGA-----PKEPA 1164
Db 971 HNSRRHNSASVENVSLKSSBSGSTLGCDPEPTSPQQAQPLVAVPPVQARFNNQCPG 1030
QY 1165 KLCSAG-----GLENGLNYIDLVDYKDFKQCPQECTPEPQPPPPHQLG 1212
Db 1031 ALICPGSSSPYMERETSVGPNGLNYALIDV-----RGEQSLAQSQPQ-----G 1077
QY 1213 SGESSSTRSSEDJ-----SAYASISF 1234
Db 1078 DKNSWSTRSLGGLGTIVGSGASGVCGGPGTGALPSASTYASIDF 1123

Search completed: June 30, 2004, 14:11:25
Job time : 59 secs